WHAT IS CLAIMED IS:

1. An anti-CD79b antibody comprising:

(a) at least one HVR sequence selected from the group consisting of:

(i) HVR-L1 comprising sequence A1-A15, wherein A1-A15 is KASQSVDYDGDSFLN (SEQ ID NO: 131)

(ii) HVR-L2 comprising sequence B1-B7, wherein B1-B7 is AASNLES (SEQ ID NO: 132)

(iii) HVR-L3 comprising sequence C1-C9, wherein C1-C9 is QQSNEDPLT (SEQ ID NO: 133)

(iv) HVR-H1 comprising sequence D1-D10, wherein D1-D10 is GYTFSSYWIE (SEQ ID NO: 134)

(v) HVR-H2 comprising sequence E1-E18, wherein E1-E18 is GEILPGGGDTNYNEIFKG (SEQ ID NO: 135)

(vi) HVR-H3 comprising sequence F1-F10, wherein F1-F10 is TRRVPVYFDY (SEQ ID NO: 136); and

(b) at least one variant HVR, wherein the variant HVR comprises modification of at least one residue of the sequence depicted in SEQ ID NO: 131, 132, 133, 134, 135 or 136.

2. The antibody of claim 1, wherein F6 in a variant HVR-H3 is I, F7 is R and F8 is L.

3. The antibody of claim 1 or 2, wherein A9 in a variant HVR-L1 is E or S.

4. The antibody of claim 1, wherein at least a portion of the framework sequence is a human consensus framework sequence.

5. The antibody of claim 1, wherein said modification is substitution, insertion or deletion.

6. The antibody of claim 1, wherein a HVR-L1 variant comprises one substitution in any of the following positions: A4(K), A9 (E or S) and A10 (A or S).

7. The antibody of claim 1, wherein a HVR-L2 variant comprises 1-5 (1, 2, 3, 4 or 5) substitutions in any one or combination of the following positions: B2 (S or G), B3 (R or G), B4 (K, R, Y, I, H or Q), B5 (R), B6 (G, K, A, R, S or L) and B7 (R, N, T or G).

8. The antibody of claim 1, wherein a HVR-L3 variant comprises 1-4 (1, 2, 3 or 4) substitutions in any one or combination of the following positions: C1 (N or D), C2 (N or P), C3 (D or R), C5 (S, K, A, Q, D, L or G), C6 (A, E or N), C7 (A), C8 (R) and C9 (N).

9. The antibody of claim 1, wherein a HVR-H1 variant comprises 1-7 (1, 2, 3, 4, 5, 6, or 7) substitutions in any one or combination of the following positions: D1 (P), D2 (F), D3 (P, S, Y, G or N), D4 (L or V), D5 (T, R, N, K, C, G or P), D6 (R, T, K or G), D8 (F), D9 (V or L) and D10 (S, Q, N or D).

10. The antibody of claim 1, wherein a HVR-H3 variant comprises 1-3 (1, 2, or 3) substitutions in any one or combination of the following positions: F4 (R or I), F6 (I or F), F7 (K, C, R, V or F), F8 (L), and F9 (S).

11. The antibody of claim 1 comprising a HVR-H2 having the sequence of SEQ ID NO: 135.

12. The antibody of claim 1, wherein F6 in a variant HVR-H3 is I.

13. The antibody of claim 1, wherein F7 in a variant HVR-H3 is R.

14. The antibody of claim 1, wherein F8 in a variant HVR-H3 is L.

15. The antibody of claim 1, wherein A9 in a variant HVR-L1 is E.

16. The antibody of claim 1, wherein A9 in a variant HVR-L1 is S.

17. A humanized anti-CD79b antibody wherein monovalent affinity of the antibody to human CD79b is substantially the same as monovalent affinity of a murine antibody comprising a light chain and heavy chain variable sequence as depicted in Figures 7A-B (SEQ ID NO: 10) and Figures 8A-B (SEQ ID NO: 14).

18. A humanized anti-CD79b antibody wherein monovalent affinity of the antibody to human CD79b is at least 1, 2, 3, 4, 5, 6, 7, 8, 9 or 10-fold greater than monovalent affinity of a murine or chimeric antibody comprising a light chain and heavy chain variable sequence as depicted in Figures 7A-B (SEQ ID NO: 10) and Figures 8A-B (SEQ ID NO: 14).

19. A humanized anti-CD79b antibody wherein monovalent affinity of the antibody to human CD79b is at least 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 25, 30, 35, 40, 45, 50, 55 or 60-fold lower than monovalent affinity of a murine or chimeric antibody comprising a light chain and heavy chain variable sequence as depicted in Figures 7A-B (SEQ ID NO: 10) and Figures 8A-B (SEQ ID NO: 14).

20. The humanized antibody of claim 17-19 wherein the murine antibody is produced by the hybridoma cell line deposited with the ATCC as HB11413 on July 20, 1993.

21. A humanized anti-CD79b antibody wherein the affinity of the antibody in its bivalent form to human CD79b is substantially the same as the affinity of a murine antibody in its bivalent form and comprising a light chain and heavy chain variable sequence as depicted in Figures 7A-B (SEQ ID NO: 10) and Figures 8A-B (SEQ ID NO: 14).

22. A humanized anti-CD79b antibody the affinity of the antibody in its bivalent form to human CD79b is at least 1, 2, 3, 4, 5, 6, 7, 8, 9 or 10-fold greater than the affinity of a murine or chimeric antibody in its bivalent form and comprising a light chain and heavy chain variable sequence as depicted in Figures 7A-B (SEQ ID NO: 10) and Figures 8A-B (SEQ ID NO: 14).

23. A humanized anti-CD79b antibody wherein the affinity of the antibody in its bivalent form to human CD79b is at least 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 25, 30, 35, 40, 45, 50, 55 or 60-fold lower than the affinity of a murine or chimeric antibody in its bivalent form comprising a light chain and heavy chain variable sequence as depicted in Figures 7A-B (SEQ ID NO: 10) and Figures 8A-B (SEQ ID NO: 14).

24. A humanized anti-CD79b antibody wherein the affinity of the antibody in its bivalent form to human CD79b is 0.4 nM.

25. The humanized anti-CD79 antibody of claim 24 wherein the affinity of the antibody in its bivalent form to human CD79b is 0.4 nM +/- .04.

26. A humanized anti-CD79b antibody wherein the affinity of the antibody in its bivalent form to human CD79b is 0.2 nM.

27. The humanized anti-CD79 antibody of claim 26 wherein the affinity of the antibody in its bivalent form to human CD79b is 0.2 nM +/- .02.

28. A humanized anti-CD79b antibody wherein the affinity of the antibody in its bivalent form to human CD79b is 0.5 nM.

29. The humanized anti-CD79 antibody of claim 28 wherein the affinity of the antibody in its bivalent form to human CD79b is 0.5 nM +/- 0.1.

30. The antibody of any of claims 17-29 wherein the binding affinity is expressed as a Kd value.

31. The antibody of any of claims 17-29 wherein the binding affinity is measured by Biacore or radioimmunoassay.

32. The antibody of claims 1-3 comprising human κ subgroup 1 consensus framework sequence.

33. The antibody of claims 1-3 comprising heavy chain human subgroup III consensus framework sequence.

34. The antibody of claim 33 wherein the framework sequence comprises a substitution at position 71, 73 and/or 78.

35. The antibody of claim 34 wherein said substitution is R71A, N73T and/or L78A.

36. The antibody of claim 35 wherein the framework sequence comprises a substitution at position 48, 67, 69, 71, 73 and/or 78.

37. The antibody of claim 36 wherein said substitution is V48I, F67A, I69F, R71A, N73T and/or L78A.

38. The antibody of claim 33 wherein the framework sequence comprises a substitution at position 48, 67, 69, 71, 73, 75, 78 and/or 80.

39. The antibody of claim 38 wherein said substitution is V48I, F67A, I69F, R71A, N73T, K75S, L78A, and/or L80M.

40. The antibody of claim 32 wherein the framework sequence comprises a substitution at position 4.

41. The antibody of claim 40 wherein said substitution is M4L.

42. The antibody of claim 32 wherein the framework sequence comprises a substitution at position 47.

43. The antibody of claim 42 wherein said substitution is L47F.

44. The antibody of claim 32 wherein the framework sequence comprises a substitution at position 4 and/or position 47.

45. The antibody of claim 44 wherein said substitution is M4L and/or L47F.

46. A humanized anti-CD79b antibody wherein the humanized antibody when conjugated to a cytotoxic agent inhibits tumor cell growth.

47. The antibody of the preceding claims, wherein both the humanized antibody and chimeric antibody are monovalent or bivalent.

48. The antibody of the preceding claims, wherein both the humanized antibody and chimeric antibody comprise a single Fab region linked to an Fc region.

49. An antibody comprising a heavy chain variable domain comprising HVR1-HC, HVR2-HC and/or HVR3-HC sequence depicted in Figure 15 (SEQ ID NO: 164-166).

50. The antibody of claim 49, wherein the variable domain comprises FR1-HC, FR2-HC, FR3-HC and/or FR4-HC sequence depicted in Figure 15 (SEQ ID NO: 160-163).

51. The antibody of claim 49 or 50, wherein the antibody comprises CH1 and/or Fc sequence depicted in Figure 15 (SEQ ID NO: 167 and/or 168).

52. An antibody comprising a light chain variable domain comprising HVR1-LC, HVR2-LC and/or HVR3-LC sequence depicted in Figure 15 (SEQ ID NO: 156-158).

53. The antibody of claim 52, wherein the variable domain comprises FR1-LC, FR2-LC, FR3-LC and/or FR4-LC sequence depicted in Figure 15 (SEQ ID NO: 152-155).

54. The antibody of claim 52 or 53, wherein the antibody comprises CL1 sequence depicted in Figure 15 (SEQ ID NO: 159).

55. The polypeptide comprising the sequence depicted in Figure 15 (SEQ ID NO: 170).

56. The polypeptide comprising the sequence depicted in Figure 15 (SEQ ID NO: 169).

57. The antibody made by the process of:

(a) culturing a cell expressing an antibody comprising a heavy chain variable domain of any of claims 49-51 and a light chain variable domain of any of claims 52-54; and

(b) isolating the antibody from said cultured cell.

58. An antibody comprising a heavy chain variable domain of any of claims 49-51 and a light chain variable domain of any of claims 52-54.

59. The antibody of claim 58, wherein the antibody is monovalent and comprises an Fc region.

60. An antibody comprising a heavy chain variable domain comprising HVR1-HC, HVR2-HC and/or HVR3-HC sequence depicted in Figure 16 (SEQ ID NO: 183-185).

61. The antibody of claim 60, wherein the variable domain comprises FR1-HC, FR2-HC, FR3-HC and/or FR4-HC sequence depicted in Figure 16 (SEQ ID NO: 179-182).

62. The antibody of claim 60 or 61, wherein the antibody comprises CH1 and/or Fc sequence depicted in Figure 16 (SEQ ID NO: 186 and/or 187).

63. An antibody comprising a light chain variable domain comprising HVR1-LC, HVR2-LC and/or HVR3-LC sequence depicted in Figure 16 (SEQ ID NO:175-177).

64. The antibody of claim 63, wherein the variable domain comprises FR1-LC, FR2-LC, FR3-LC and/or FR4-LC sequence depicted in Figure 16 (SEQ ID NO: 171-174).

65. The antibody of claim 63 or 64, wherein the antibody comprises CL1 sequence depicted in Figure 16 (SEQ ID NO: 178).

66. The polypeptide comprising the sequence depicted in Figure 16 (SEQ ID NO: 189).

67. The polypeptide comprising the sequence depicted in Figure 16 (SEQ ID NO: 188).

68. The antibody made by the process of:

(a) culturing a cell expressing an antibody comprising a heavy chain variable domain of any of claims 60-62 and a light chain variable domain of any of claims 63-65; and

(b) isolating the antibody from said cultured cell.

69. An antibody comprising a heavy chain variable domain of any of claims 60-62 and a light chain variable domain of any of claims 63-65.

70. The antibody of claim 69, wherein the antibody is monovalent and comprises an Fc region.

71. An antibody comprising a heavy chain variable domain comprising HVR1-HC, HVR2-HC and/or HVR3-HC sequence depicted in Figure 17 (SEQ ID NO: 202-204).

72. The antibody of claim 71, wherein the variable domain comprises FR1-HC, FR2-HC, FR3-HC and/or FR4-HC sequence depicted in Figure 17 (SEQ ID NO: 198-201).

73. The antibody of claim 71 or 72, wherein the antibody comprises CH1 and/or Fc sequence depicted in Figure 17 (SEQ ID NO: 205 and/or 206).

74. An antibody comprising a light chain variable domain comprising HVR1-LC, HVR2-LC and/or HVR3-LC sequence depicted in Figure 17 (SEQ ID NO: 194-196).

75. The antibody of claim 74, wherein the variable domain comprises FR1-LC, FR2-LC, FR3-LC and/or FR4-LC sequence depicted in Figure 17 (SEQ ID NO: 190-193).

76. The antibody of claim 74 or 75, wherein the antibody comprises CL1 sequence depicted in Figure 17 (SEQ ID NO: 197).

77. The polypeptide comprising the sequence depicted in Figures 8A-B (SEQ ID NO: 208).

78. The polypeptide comprising the sequence depicted in Figures 7A-B (SEQ ID NO: 207).

79. The antibody made by the process of:

(a) culturing a cell expressing an antibody comprising a heavy chain variable domain of any of claims 71-73 and a light chain variable domain of any of claims 74-76; and

(b) isolating the antibody from said cultured cell.

80. An antibody comprising a heavy chain variable domain of any of claims 71-73 and a light chain variable domain of any of claims 74-76.

81. The antibody of claim 80, wherein the antibody is monovalent and comprises an Fc region.

82. An antibody comprising a heavy chain variable domain comprising HVR1-HC, HVR2-HC and/or HVR3-HC sequence depicted in Figure 18 (SEQ ID NO: 221-223).

83. The antibody of claim 82, wherein the variable domain comprises FR1-HC, FR2-HC, FR3-HC and/or FR4-HC sequence depicted in Figure 18 (SEQ ID NO: 217-220).

84. The antibody of claim 82 or 83, wherein the antibody comprises CH1 and/or Fc sequence depicted in Figure 18 (SEQ ID NO: 224 and/or 225).

85. An antibody comprising a light chain variable domain comprising HVR1-LC, HVR2-LC and/or HVR3-LC sequence depicted in Figure 18 (SEQ ID NO: 213-215).

86. The antibody of claim 85, wherein the variable domain comprises FR1-LC, FR2-LC, FR3-LC and/or FR4-LC sequence depicted in Figure 18 (SEQ ID NO: 209-212).

87. The antibody of claim 85 or 86, wherein the antibody comprises CL1 sequence depicted in Figure 18 (SEQ ID NO: 216).

88. The polypeptide comprising the sequence depicted in Figure 18 (SEQ ID NO: 227).

89. The polypeptide comprising the sequence depicted in Figure 18 (SEQ ID NO: 226).

90. The antibody made by the process of:

(a) culturing a cell expressing an antibody comprising a heavy chain variable domain of any of claims 82-84 and a light chain variable domain of any of claims 85-87; and

(b) isolating the antibody from said cultured cell.

91. An antibody comprising a heavy chain variable domain of any of claims 82-84 and a light chain variable domain of any of claims 85-87.

92. The antibody of claim 91, wherein the antibody is monovalent and comprises an Fc region.

93. The antibody of claim 1, wherein the antibody comprises a light chain variable domain having at least 90% amino acid sequence identity to an amino acid sequence selected from SEQ ID NO: 169.

94. The antibody of claim 1, wherein the antibody comprises a heavy chain variable domain having at least 90% amino acid sequence identity to an amino acid sequence selected from SEQ ID NO: 170.

95. The antibody of claim 1, wherein the antibody comprises a light chain variable domain having at least 90% amino acid sequence identity to an amino acid sequence selected from SEQ ID NO: 188.

96. The antibody of claim 1, wherein the antibody comprises a heavy chain variable domain having at least 90% amino acid sequence identity to an amino acid sequence selected from SEQ ID NO: 189.

97. The antibody of claim 1, wherein the antibody comprises a light chain variable domain having at least 90% amino acid sequence identity to an amino acid sequence selected from SEQ ID NO: 207.

98. The antibody of claim 1, wherein the antibody comprises a heavy chain variable domain having at least 90% amino acid sequence identity to an amino acid sequence selected from SEQ ID NO: 208.

99. The antibody of claim 1, wherein the antibody comprises a light chain variable domain having at least 90% amino acid sequence identity to an amino acid sequence selected from SEQ ID NO: 226.

100. The antibody of claim 1, wherein the antibody comprises a heavy chain variable domain having at least 90% amino acid sequence identity to an amino acid sequence selected from SEQ ID NO: 227.

101. The antibody of claim 1, wherein the antibody comprises a heavy chain variable domain comprising one, two, three or four framework amino acid sequences selected from SEQ ID NOs: 143, 144, 145 and 146.

102. The antibody of claim 1, wherein the antibody comprises a light chain variable domain comprising one, two, three or four framework amino acid sequences selected from SEQ ID NOs: 139, 140, 141 and 142.

103. The antibody of claim 1, wherein the antibody comprises a heavy chain variable domain comprising one, two, three or four framework amino acid sequences having at least 90% amino acid sequence identity to an amino acid selected from SEQ ID NOs: 143, 144, 145 and 146.

104. The antibody of claim 1, wherein the antibody comprises a light chain variable domain comprising one, two, three or four framework amino acid sequences having at least 90% amino acid sequence identity to an amino acid selected from selected from SEQ ID NOs: 139, 140, 141 and 142.

105. The antibody of claim 93, wherein the antibody comprises a heavy chain variable domain having at least 90% amino acid sequence identity to an amino acid sequence selected from SEQ ID NO: 170.

106. The antibody of claim 94, wherein the antibody comprises a light chain variable domain having at least 90% amino acid sequence identity to an amino acid sequence selected from SEQ ID NO: 169.

107. The antibody of claim 95, wherein the antibody comprises a heavy chain variable domain having at least 90% amino acid sequence identity to an amino acid sequence selected from SEQ ID NO: 189.

108. The antibody of claim 96, wherein the antibody comprises a light chain variable domain having at least 90% amino acid sequence identity to an amino acid sequence selected from SEQ ID NO: 188.

109. The antibody of claim 97, wherein the antibody comprises a heavy chain variable domain having at least 90% amino acid sequence identity to an amino acid sequence selected from SEQ ID NO: 208.

110. The antibody of claim 98, wherein the antibody comprises a light chain variable domain having at least 90% amino acid sequence identity to an amino acid sequence selected from SEQ ID NO: 207.

111. The antibody of claim 99, wherein the antibody comprises a heavy chain variable domain having at least 90% amino acid sequence identity to an amino acid sequence selected from SEQ ID NO: 227.

112. The antibody of claim 100, wherein the antibody comprises a light chain variable domain having at least 90% amino acid sequence identity to an amino acid sequence selected from SEQ ID NO: 226.

113. An antibody that binds to CD79b, wherein the antibody comprises a heavy chain variable domain having a least 90% sequence identity to the amino acid sequence of SEQ ID NO: 170.

114. An antibody that binds to CD79b, wherein the antibody comprises a light chain variable domain having a least 90% sequence identity to the amino acid sequence of SEQ ID NO: 169.

115. An antibody that binds to CD79b, wherein the antibody comprises a heavy chain variable domain having a least 90% sequence identity to the amino acid sequence of SEQ ID NO: 170 and a light chain variable domain having at least 90% sequence identity to the amino acid sequence of SEQ ID NO: 169.

116. An antibody that binds to CD79b, wherein the antibody comprises a heavy chain variable domain having a least 90% sequence identity to the amino acid sequence of SEQ ID NO: 189.

117. An antibody that binds to CD79b, wherein the antibody comprises a light chain variable domain having a least 90% sequence identity to the amino acid sequence of SEQ ID NO: 188.

118. An antibody that binds to CD79b, wherein the antibody comprises a heavy chain variable domain having a least 90% sequence identity to the amino acid sequence of SEQ ID NO: 189 and a light chain variable domain having at least 90% sequence identity to the amino acid sequence of SEQ ID NO: 188.

119. An antibody that binds to CD79b, wherein the antibody comprises a heavy chain variable domain having a least 90% sequence identity to the amino acid sequence of SEQ ID NO: 208.

120. An antibody that binds to CD79b, wherein the antibody comprises a light chain variable domain having a least 90% sequence identity to the amino acid sequence of SEQ ID NO: 207.

121. An antibody that binds to CD79b, wherein the antibody comprises a heavy chain variable domain having a least 90% sequence identity to the amino acid sequence of SEQ ID NO: 208 and a light chain variable domain having at least 90% sequence identity to the amino acid sequence of SEQ ID NO: 207.

122. An antibody that binds to CD79b, wherein the antibody comprises a heavy chain variable domain having a least 90% sequence identity to the amino acid sequence of SEQ ID NO: 227.

123. An antibody that binds to CD79b, wherein the antibody comprises a light chain variable domain having a least 90% sequence identity to the amino acid sequence of SEQ ID NO: 226.

124. An antibody that binds to CD79b, wherein the antibody comprises a heavy chain variable domain having a least 90% sequence identity to the amino acid sequence of SEQ ID NO: 227 and a light chain variable domain having at least 90% sequence identity to the amino acid sequence of SEQ ID NO: 226.

125. A polynucleotide encoding an antibody of claim 1, 6-10, 58, 69, 80, 91, 115, 118, 121, 124, 251 or 258.

126. A vector comprising the polynucleotide of claim 125.

127. A host cell comprising the vector of claim 126.

128. A method of making an anti-CD79b antibody, wherein the method comprises (a) culturing a host cell selected from the group comprising a eukaryotic cell and a CHO cell under conditions suitable for expression of the polynucleotide encoding the antibody, and (b) isolating the antibody.

129. The antibody of claim 1, 6-10, 58, 69, 80, 91, 115, 118, 121, 124, 251 or 258, wherein the antibody binds to an epitope within a region of CD79b from amino acid 29-39 of SEQ ID NO: 2 or amino acid 1-11 of SEQ ID NO: 16.

130. The antibody of claim 1, 6-10, 58, 69, 80, 91, 115, 118, 121, 124, 251 or 258, wherein the CD79b is expressed on the surface of a cell.

131. The antibody of claim 130, wherein the cell is a B cell.

132. The antibody of claim 131, wherein the B cell is associated with a B cell proliferative disorder.

133. The antibody of claim 132, wherein the B cell proliferative disorder is a cancer.

134. The antibody of claim 133, wherein the B cell proliferative disorder is selected from selected from lymphoma, non-Hodgkins lymphoma (NHL), aggressive NHL, relapsed aggressive NHL, relapsed indolent NHL, refractory NHL, refractory indolent NHL, chronic lymphocytic leukemia (CLL), small lymphocytic lymphoma, leukemia, hairy cell leukemia (HCL), acute lymphocytic leukemia (ALL), and mantle cell lymphoma.

135. The antibody of claim 1, 6-10, 58, 69, 80, 91, 115, 118, 121, 124, 251 or 258, wherein the antibody is a monoclonal antibody.

136. The antibody of claim 135, wherein the antibody is an antibody fragment selected from a Fab, Fab'-SH, Fv, scFv or $(Fab')_2$ fragment.

137. The antibody of claim 135, wherein the antibody is humanized.

138. The antibody of claim 1, 6-10, 58, 69, 80, 91, 115, 118, 121, 124, 251 or 258, wherein the antibody binds to the same epitope as an antibody selected from ATCC as HB11413, deposited on July 20, 1993; an antibody comprising a heavy chain variable domain of SEQ ID NO: 170 and a light chain variable domain of SEQ ID NO:169; an antibody comprising a heavy chain variable domain of SEQ ID NO: 189 and a light chain variable domain of SEQ ID NO: 188; an antibody comprising a heavy chain variable domain of SEQ ID NO: 208 and a light chain variable domain of SEQ ID NO: 207 and an antibody comprising a heavy chain variable domain of SEQ ID NO: 227 and a light chain variable domain of SEQ ID NO: 226.

139. An immunoconjugate comprising an antibody of claim 1, 6-10, 58, 69, 80, 91, 115, 118, 121, 124, 251 or 258 covalently attached to a cytotoxic agent.

140. The immunoconjugate of claim 139, wherein the cytotoxic agent is selected from a toxin, a chemotherapeutic agent, a drug moiety, an antibiotic, a radioactive isotope and a nucleolytic enzyme.

141. The immunoconjugate of claim 140, wherein the immunoconjugate having the formula Ab-(L-D)p, wherein: (a) Ab is the antibody of claim 1, 6-10, 58, 69, 80, 91, 115, 118, 121, 124, 251 or 258;
(b) L is a linker;
(c) D is a drug moiety.

142. The immunoconjugate of claim 141, wherein L is selected from 6-maleimidocaproyl (MC), maleimidopropanoyl (MP), valine-citrulline (val-cit), alanine-phenylalanine (ala-phe), p-aminobenzyloxycarbonyl (PAB), N-Succinimidyl 4-(2-pyridylthio) pentanoate (SPP), N-succinimidyl 4-(N-maleimidomethyl) cyclohexane-1 carboxylate (SMCC), and N-Succinimidyl (4-iodo-acetyl) aminobenzoate (SIAB).

143. The immunoconjugate of claim 141, wherein D is selected from an auristatin and dolostatin.

144. A pharmaceutical composition comprising the immunoconjugate of claim 141 and a pharmaceutically acceptable carrier.

145. A method of inhibiting the growth of a cell that expresses CD79b, said method comprising contacting said cell with an antibody of any of claims 1, 6-10, 58, 69, 80, 91, 115, 118, 121, 124, 251 or 258, thereby causing an inhibition of growth of said cell.

146. The method of claim 145 wherein said antibody is conjugated to a cytotoxic agent.

147. The method of claim 145 wherein said antibody is conjugated to a growth inhibitory agent.

148. A method of treating a subject having cancer, said method comprising administering to the subject an effective amount of a an antibody of any of claims 1, 6-10, 58, 69, 80, 91, 115, 118, 121, 124, 251 or 258.

149. The method of claim 148 wherein the cancer is selected from lymphoma, non-Hodgkins lymphoma (NHL), aggressive NHL, relapsed aggressive NHL, relapsed indolent NHL, refractory NHL, refractory indolent NHL, chronic lymphocytic leukemia (CLL), small lymphocytic lymphoma, leukemia, hairy cell leukemia (HCL), acute lymphocytic leukemia (ALL), and mantle cell lymphoma.

150. The method of claim 148 wherein said antibody is conjugated to a cytotoxic agent.

151. The method of claim 148 wherein said antibody is conjugated to a growth inhibitory agent.

152. A method of treating a proliferative disorder in a subject, said method comprising administering to the subject an effective amount of an antibody of any of claims 1, 6-10, 58, 69, 80, 91, 115, 118, 121, 124, 251 or 258.

153. The method of claim 152 wherein said proliferative disorder is cancer.

154. The method of claim 153 wherein said cancer is selected from lymphoma, non-Hodgkins lymphoma (NHL), aggressive NHL, relapsed aggressive NHL, relapsed indolent NHL, refractory NHL, refractory indolent NHL, chronic lymphocytic leukemia (CLL), small lymphocytic lymphoma, leukemia, hairy cell leukemia (HCL), acute lymphocytic leukemia (ALL), and mantle cell lymphoma.

155. The method of claim 152 wherein said antibody is conjugated to a cytotoxic agent.

156. The method of claim 152 wherein said antibody is conjugated to a growth inhibitory agent.

157. The method of inhibiting the growth of a cell, wherein growth of said cell is at least in part dependent upon a growth potentiating effect of CD79b, said method comprising contacting said cell with an effective amount of an antibody of any of the claims 1, 6-10, 58, 69, 80, 91, 115, 118, 121, 124, 251 or 258, thereby inhibiting the growth of said cell.

158. The method of claim 157 wherein said antibody is conjugated to a cytotoxic agent.

159. The method of claim 157 wherein said antibody is conjugated to a growth inhibitory agent.

160. A method of therapeutically treating a tumor in a mammal, wherein the growth of said tumor is at least in part dependent upon a growth potentiating effect of CD79b, said method comprising contacting said cell with an effective amount of an antibody of any of claims 1, 6-10, 58, 69, 80, 91, 115, 118, 121, 124, 251 or 258.

161. The method of claim 160 wherein said tumor is associated with lymphoma, non-Hodgkins lymphoma (NHL), aggressive NHL, relapsed aggressive NHL, relapsed indolent NHL, refractory NHL, refractory indolent NHL, chronic lymphocytic leukemia (CLL), small lymphocytic lymphoma, leukemia, hairy cell leukemia (HCL), acute lymphocytic leukemia (ALL), and mantle cell lymphoma.

162. The method of claim 160 wherein said antibody is conjugated to a cytotoxic agent.

163. The method of claim 160 wherein said antibody is conjugated to a growth-inhibitory agent.

164. A method of inhibiting B cell proliferation comprising exposing a cell to an immunoconjugate of Claim 142 under conditions permissive for binding of the immunoconjugate to CD79b.

165. The method of Claim 164, wherein the B cell proliferation is selected from lymphoma, non-Hodgkins lymphoma (NHL), aggressive NHL, relapsed aggressive NHL, relapsed indolent NHL, refractory NHL, refractory indolent NHL, chronic lymphocytic leukemia (CLL), small lymphocytic lymphoma, leukemia, hairy cell leukemia (HCL), acute lymphocytic leukemia (ALL), and mantle cell lymphoma.

166. The method of claim 164, wherein the B cell is a xenograft.

167. The method of claim 164, wherein the exposing takes place in vitro.

168. The method of claim 164, wherein the exposing takes place in vivo.

169. A method of determining the presence of CD79b in a biological sample suspected of containing CD79b, said method comprising exposing said sample to an antibody of any of claims 1, 6-10, 58, 69, 80, 91, 115, 118, 121, 124, 251 or 258, and determining binding of said antibody to CD79b in said sample wherein

binding of said antibody to CD79b in said sample is indicative of the presence of said protein in said sample.

170. The method of claim 169 wherein the biological sample is from a patient suspected of having a B cell proliferative disorder.

171. The method of claim 170 wherein the B cell proliferative disorder is selected from lymphoma, non-Hodgkins lymphoma (NHL), aggressive NHL, relapsed aggressive NHL, relapsed indolent NHL, refractory NHL, refractory indolent NHL, chronic lymphocytic leukemia (CLL), small lymphocytic lymphoma, leukemia, hairy cell leukemia (HCL), acute lymphocytic leukemia (ALL), and mantle cell lymphoma.

172. A method of binding an antibody of any of claims 1, 6-10, 58, 69, 80, 91, 115, 118, 121, 124, 251 or 258 to a cell that expresses CD79b, said method comprising contacting said cell with an antibody of any of claims 1, 6-10, 58, 69, 80, 91, 115, 118, 121, 124, 251 or 258.

173. The method of claim 172 wherein said antibody is conjugated to a cytotoxic agent.

174. The method of claim 172 wherein said antibody is conjugated to a growth-inhibitory agent.

175. A cysteine engineered antibody comprising one or more free cysteine amino acids, wherein the cysteine engineered antibody is prepared by a process comprising replacing one or more amino acid residues of a parent antibody by a free cysteine amino acid, wherein the parent antibody is an antibody of claim 1, 6-10, 58, 69, 80, 91, 115, 118, 121, 124, 251 or 258.

176. The antibody of claim 175 wherein the one or more free cystein amino acids have a thio reactivity value in the range of 0.6 to 1.0.

177. The cysteine engineered antibody of claim 175, wherein the cysteine engineered antibody is more reactive than the parent antibody with a thio-reactive reagent.

178. The cysteine engineered antibody of claim 175 wherein the process further comprises determining the thiol reactivity of the cysteine engineered antibody by reacting the cysteine engineered antibody with a thiol-reactive reagent;

wherein the cysteine engineered antibody is more reactive than the parent antibody with the thiol-reactive reagent.

179. The cysteine engineered antibody of claim 175 wherein the one or more free cysteine amino acid residues are located in a light chain.

180. The cysteine engineered antibody of claim 175, wherein the antibody is an immunoconjugate comprising the cysteine engineered antibody covalently attached to a cytotoxic agent.

181. The cysteine engineered antibody of claim 180, wherein the cytotoxic agent is selected from a toxin, a chemotherapeutic agent, a drug moiety, an antibiotic, a radioactive isotope, and a nucleolytic enzyme.

182. The cysteine engineered antibody of claim 175, wherein the antibody is covalently attached to a capture label, a detection label, or a solid support.

183. The cysteine engineered antibody of claim 182 wherein the antibody is covalently attached to a biotin capture label.

184. The cysteine engineered antibody of claim 182 wherein the antibody is covalently attached to a fluorescent dye detection label.

185. The cysteine engineered antibody of claim 184 wherein the fluorescent dye is selected from a fluorescein type, a rhodamine type, dansyl, Lissamine, a cyanine, a phycoerythrin, Texas Red, and an analog thereof.

186. The cysteine engineered antibody of claim 182 wherein the antibody is covalently attached to a radionuclide detection label selected from ^{3}H, ^{11}C, ^{14}C, ^{18}F, ^{32}P, ^{35}S, ^{64}Cu, ^{68}Ga, ^{86}Y, ^{99}Tc, ^{111}In, ^{123}I, ^{124}I, ^{125}I, ^{131}I, ^{133}Xe, ^{177}Lu, ^{211}At, and ^{213}Bi.

187. The cysteine engineered antibody of claim 182 wherein the antibody is covalently attached to a detection label by a chelating ligand.

188. The cysteine engineered antibody of claim 187 wherein the chelating ligand is selected from DOTA, DOTP, DOTMA, DTPA and TETA.

189. The antibody of claim 1, 6-10, 58, 69, 80, 91, 115, 118, 121, 124, 251 or 258 comprising an albumin binding peptide.

190. The antibody of claim 188, wherein the albumin binding peptide is selected from SEQ ID NOs: 246-250.

191. A cysteine engineered antibody comprising one or more free cysteine amino acids at one or more positions selected from 15, 110, 114, 121, 127, 168 and 205 of the light chain according to Kabat numbering convention and 5, 23, 84, 112 of the heavy chain according to Kabat numbering convention and 118, 120, 282, 375 and 400 of the heavy chain according to EU numbering convention in a parent antibody, wherein the parent antibody is an antibody of claim 1, 6-10, 58, 69, 80, 91, 115, 118, 121, 124, 251 or 258.

192. The antibody of claim 191, wherein a cysteine is at position 205 of the light chain.

193. The antibody of claim 191, wherein a cysteine is at position 118 of the heavy chain.

194. The antibody of claim 191, wherein a cysteine is at position 400 of the heavy chain.

195. The antibody of claim 191 wherein the antibody is selected from a monoclonal antibody, a bispecific antibody, a chimeric antibody, a human antibody, and a humanized antibody.

196. The antibody of claim 191 which is an antibody fragment.

197. The antibody of claim 196 wherein the antibody fragment is a Fab fragment.

198. The antibody of claim 191 which is selected from a chimeric antibody, a human antibody, or a humanized antibody.

199. The antibody of claim 191 which is produced in bacteria.

200. The antibody of claim 191 which is produced in CHO cells.

201. A method of determining the presence of a CD79b protein in a sample suspected of containing said protein, said method comprising exposing said sample to an antibody of Claim 187 and determining binding of said antibody to said CD79b protein in said sample, wherein binding of the antibody to said protein is indicative of the presence of said protein in said sample.

202. The method of Claim 201 wherein said sample comprises a cell suspected of expressing said CD79b protein.

203. The method of Claim 201 wherein said cell is B cell.

204. The method of Claim 201 wherein the antibody is covalently attached to a label selected from a fluorescent dye, a radioisotope, biotin, or a metal-complexing ligand.

205. A pharmaceutical formulation comprising the anti-CD79b antibody of claim 191, and a pharmaceutically acceptable diluent, carrier or excipient.

206. The antibody of claim 191 wherein the antibody is covalently attached to an auristatin or a maytansinoid drug moiety whereby an antibody drug conjugate is formed.

207. The antibody-drug conjugate of claim 206 comprising an antibody (Ab), and an auristatin or maytansinoid drug moiety (D) wherein the cysteine engineered antibody is attached through one or more free cysteine amino acids by a linker moiety (L) to D; the compound having Formula **I**:

$$Ab–(L–D)_p \qquad \mathbf{I}$$

where p is 1, 2, 3, or 4.

208. The antibody-drug conjugate compound of claim 207 wherein p is 2.

209. The antibody-drug conjugate compound of claim 207 wherein L has the formula:

$$—A_a—W_w—Y_y—$$

where:

A is a Stretcher unit covalently attached to a cysteine thiol of the cysteine engineered antibody (Ab);

a is 0 or 1;

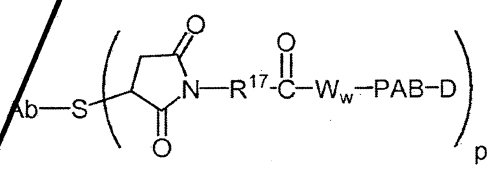
each W is independently an Amino Acid unit;

w is an integer ranging from 0 to 12;

Y is a Spacer unit covalently attached to the drug moiety; and

y is 0, 1 or 2.

210. The antibody-drug conjugate compound of claim 209 having the formula:



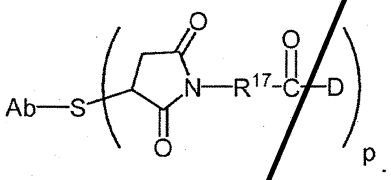
where PAB is para-aminobenzylcarbamoyl, and R^{17} is a divalent radical selected from $(CH_2)_r$, C_3-C_8 carbocyclyl, O–$(CH_2)_r$, arylene, $(CH_2)_r$–arylene, –arylene–$(CH_2)_r$–, $(CH_2)_r$–(C_3-C_8 carbocyclyl), (C_3-C_8 carbocyclyl)–$(CH_2)_r$, C_3-C_8 heterocyclyl, $(CH_2)_r$–(C_3-C_8 heterocyclyl), –(C_3-C_8 heterocyclyl)–$(CH_2)_r$–, –$(CH_2)_r$C(O)$NR^b$$(CH_2)_r$–, –$(CH_2CH_2O)_r$–, –$(CH_2CH_2O)_r$–$CH_2$–, –$(CH_2)_r$C(O)$NR^b$$(CH_2CH_2O)_r$–, –$(CH_2)_r$C(O)$NR^b$$(CH_2CH_2O)_r$–$CH_2$–, –$(CH_2CH_2O)_r$C(O)$NR^b$$(CH_2CH_2O)_r$–,

$-(CH_2CH_2O)_rC(O)NR^b(CH_2CH_2O)_r-CH_2-$, and $-(CH_2CH_2O)_rC(O)NR^b(CH_2)_r-$; where R^b is H, C_1-C_6 alkyl, phenyl, or benzyl; and r is independently an integer ranging from 1 to 10.

211. The antibody-drug conjugate compound of claim 209 wherein W_w is valine-citrulline.

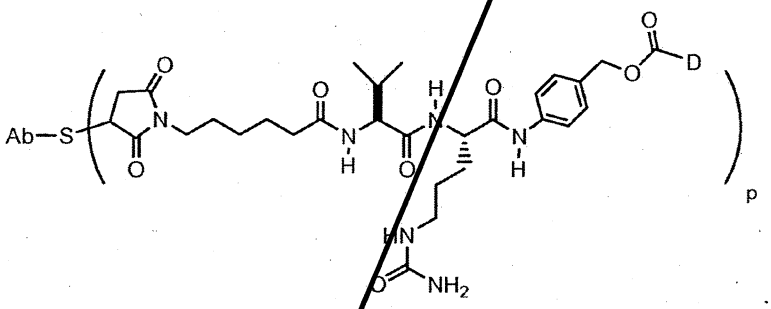
212. The antibody-drug conjugate compound of claim 209 wherein R^{17} is $(CH_2)_5$ or $(CH_2)_2$.

213. The antibody-drug conjugate compound of claim 209 having the formula:



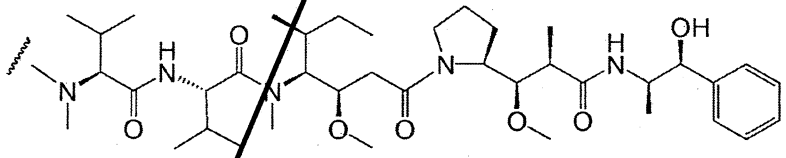
214. The antibody-drug conjugate compound of claim 213 wherein R^{17} is $(CH_2)_5$ or $(CH_2)_2$.

215. The antibody-drug conjugate compound of claim 209 having the formula:



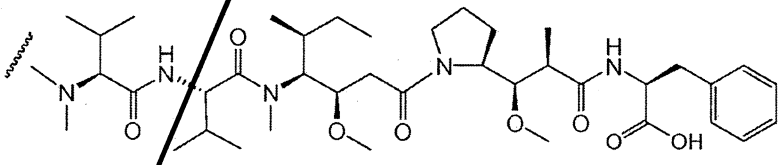
216. The antibody-drug conjugate compound of claim 207 wherein L is SMCC, SPP, SPDB or BMPEO.

217. The antibody-drug conjugate compound of claim 207 wherein D is MMAE, having the structure:



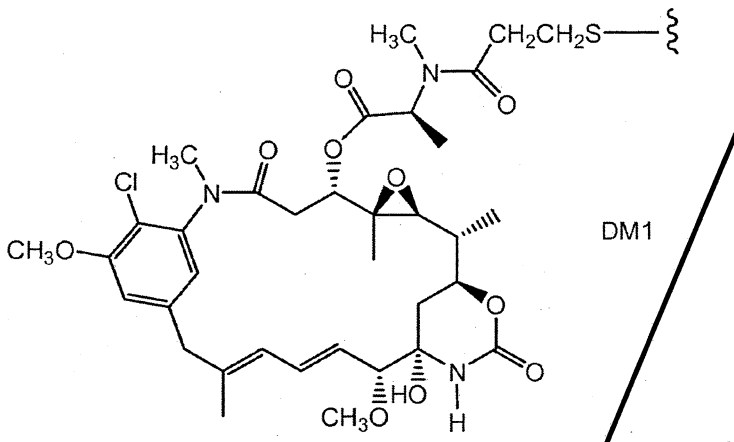
wherein the wavy line indicates the attachment site to the linker L.

218. The antibody-drug conjugate compound of claim 207 wherein D is MMAF, having the structure:

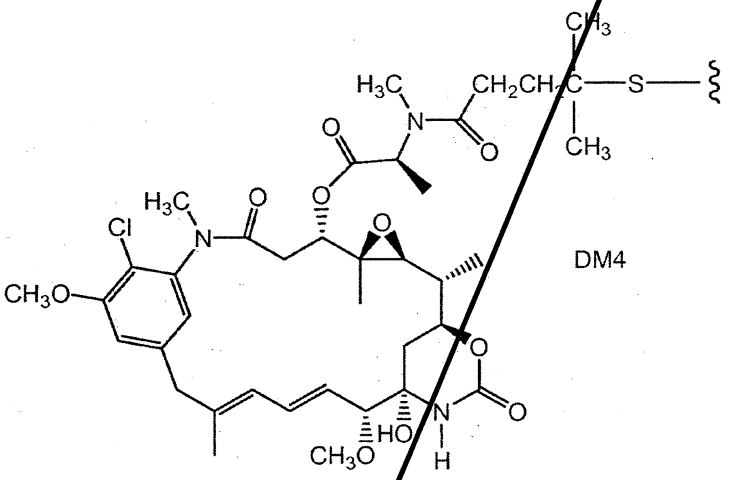


wherein the wavy line indicates the attachment site to the linker L.

219. The antibody-drug conjugate compound of claim 207 wherein D is DM1 or DM4, having the structures:



DM1



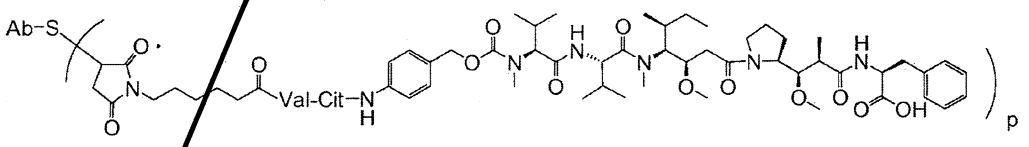
DM4

wherein the wavy line indicates the attachment site to the linker L.

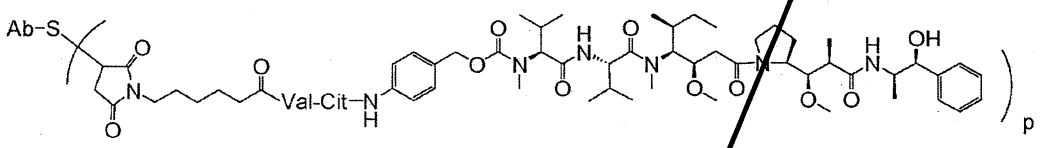
220. The antibody-drug conjugate compound of claim 206 wherein the antibody is selected from a monoclonal antibody, a bispecific antibody, a chimeric antibody, a human antibody, a humanized antibody, and an antibody fragment.

221. The antibody-drug conjugate compound of claim 206 wherein the antibody fragment is a Fab fragment.

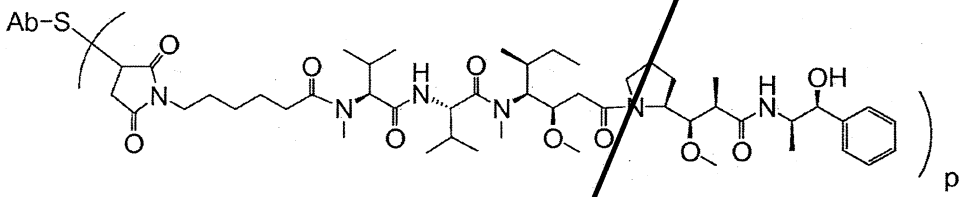
222. An antibody-drug conjugate compound selected from the structures:



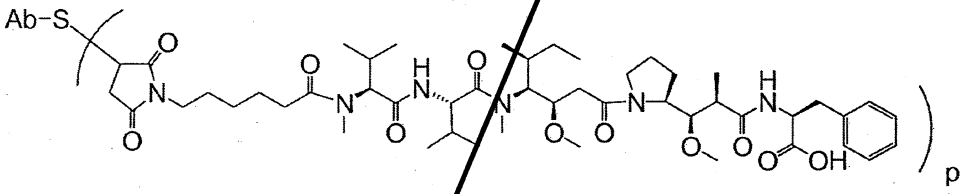
Ab-MC-vc-PAB-MMAF



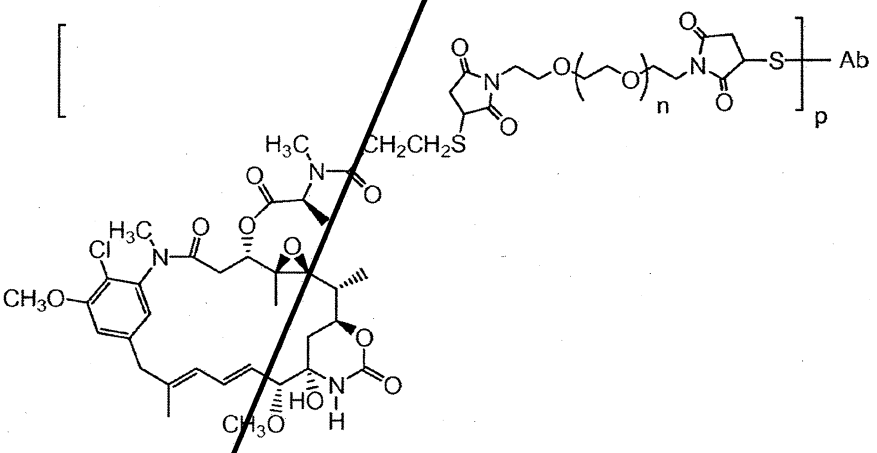
Ab-MC-vc-PAB-MMAE



Ab-MC-MMAE



Ab-MC-MMAF



Ab-BMPEO-DM1

wherein Val is valine; Cit is citrulline; p is 1, 2, 3, or 4; and Ab is an antibody of claim 191.

223. The antibody drug conjugate of claim 206 wherein the auristatin is MMAE or MMAF.

224. The antibody drug conjugate of claim 207 wherein L is MC-val-cit-PAB or MC.

225. An assay for detecting B cells comprising:

(a) exposing cells to an antibody-drug conjugate compound of claim 206; and

(b) determining the extent of binding of the antibody-drug conjugate compound to the cells.

226. A method of inhibiting cellular proliferation comprising treating mammalian cancerous B cells in a cell culture medium with an antibody-drug conjugate compound of claim 206, whereby proliferation of the cancerous B cells is inhibited.

227. A pharmaceutical formulation comprising the antibody drug conjugate of claim 206, and a pharmaceutically acceptable diluent, carrier or excipient.

228. A method of treating cancer comprising administering to a patient the pharmaceutical formulation of claim 227.

229. The method of claim 228 wherein the cancer is selected from the group consisting of lymphoma, non-Hodgkins lymphoma (NHL), aggressive NHL, relapsed aggressive NHL, relapsed indolent NHL, refractory NHL, refractory indolent NHL, chronic lymphocytic leukemia (CLL), small lymphocytic lymphoma, leukemia, hairy cell leukemia (HCL), acute lymphocytic leukemia (ALL), and mantle cell lymphoma.

230. The method of claim 228 wherein the patient is administered a cytotoxic agent in combination with the antibody-drug conjugate compound.

231. An article of manufacture comprising

the pharmaceutical formulation of claim 227;

a container; and

a package insert or label indicating that the compound can be used to treat cancer characterized by the overexpression of a CD79b polypeptide.

232. The article of manufacture of claim 231 wherein the cancer is selected from the group consisting of lymphoma, non-Hodgkins lymphoma (NHL), aggressive NHL, relapsed aggressive NHL, relapsed indolent NHL, refractory NHL, refractory indolent NHL, chronic lymphocytic leukemia (CLL), small lymphocytic lymphoma, leukemia, hairy cell leukemia (HCL), acute lymphocytic leukemia (ALL), and mantle cell lymphoma.

233. A method for making an antibody drug conjugate compound comprising an anti-CD79b antibody (Ab) of claim 191, and an auristatin or maytansinoid drug moiety (D) wherein the antibody is attached through the one or more engineered cysteine amino acids by a linker moiety (L) to D; the compound having Formula **I**:

$$Ab–(L–D)_p \qquad \mathbf{I}$$

where p is 1, 2, 3, or 4; the method comprising the steps of:

(a) reacting an engineered cysteine group of the antibody with a linker reagent to form antibody-linker intermediate Ab-L; and

(b) reacting Ab-L with an activated drug moiety D; whereby the antibody-drug conjugate is formed;

or comprising the steps of:

(c) reacting a nucleophilic group of a drug moiety with a linker reagent to form drug-linker intermediate D-L; and

(d) reacting D-L with an engineered cysteine group of the antibody; whereby the antibody-drug conjugate is formed.

234. The method of claim 233 further comprising the step of expressing the antibody in chinese hamster ovary (CHO) cells.

235. The method of claim 233 further comprising the step of treating the expressed antibody with a reducing agent.

236. The method of claim 235 wherein the reducing agent is selected from TCEP and DTT.

237. The method of claim 235 further comprising the step of treating the expressed antibody with an oxidizing agent, after treating with the reducing agent.

238. The method of claim 237 wherein the oxidizing agent is selected from copper sulfate, dehydroascorbic acid, and air.

239. The antibody of claim 191 wherein the antibody comprises a heavy chain sequence having at least 90% sequence identity to an amino acid sequence selected from any one of SEQ ID NOs: 304 or 228.

240. The antibody of claim 191 wherein the antibody comprises a light chain sequence having at least 90% sequence identity to an amino acid sequence of SEQ ID NO: 303 and a heavy chain sequence having at least 90% sequence identity to an amino acid sequence of SEQ ID NO: 228.

241. The antibody of claim 191 wherein the antibody comprises a heavy chain sequence having at least 90% sequence identity to an amino acid sequence selected from any one of SEQ ID NOs: 306 or 230.

242. The antibody of claim 191 wherein the antibody comprises a light chain sequence having at least 90% sequence identity to an amino acid sequence of SEQ ID NO: 305 and a heavy chain sequence having at least 90% sequence identity to an amino acid sequence of SEQ ID NO: 230.

243. The antibody of claim 191 wherein the antibody comprises a heavy chain sequence having at least 90% sequence identity to an amino acid sequence selected from any one of SEQ ID NOs: 308 or 232.

244. The antibody of claim 191 wherein the antibody comprises a light chain sequence having at least 90% sequence identity to an amino acid sequence of SEQ ID NO: 307 and a heavy chain sequence having at least 90% sequence identity to an amino acid sequence of SEQ ID NO: 232.

245. The antibody of claim 191 wherein the antibody comprises a heavy chain sequence having at least 90% sequence identity to an amino acid sequence selected from any one of SEQ ID NOs: 6 or 236.

246. The antibody of claim 191 wherein the antibody comprises a light chain sequence having at least 90% sequence identity to an amino acid sequence selected from any one of SEQ ID NOs: 4 or 235.

247. The antibody of claim 191 wherein the antibody comprises a light chain sequence having at least 90% sequence identity to an amino acid sequence of SEQ ID NO: 4 and a heavy chain sequence having at least 90% sequence identity to an amino acid sequence of SEQ ID NO: 236.

248. The antibody of claim 191 wherein the antibody comprises a light chain sequence having at least 90% sequence identity to an amino acid sequence of SEQ ID NO: 235 and a heavy chain sequence having at least 90% sequence identity to an amino acid sequence of SEQ ID NO: 6.

249. An antibody that binds to CD79b, wherein the antibody comprises a heavy chain variable domain having at least 90% sequence identity to an amino acid sequence selected from SEQ ID NO: 301.

250. An antibody that binds to CD79b, wherein the antibody comprises a light chain variable domain having at least 90% sequence identity to an amino acid sequence selected from SEQ ID NO: 302.

251. An antibody that binds to CD79b, wherein the antibody comprises a heavy chain variable domain having at least 90% sequence identity to an amino acid sequence selected from SEQ ID NO: 301 and a light chain variable domain having at least 90% sequence identity to an amino acid sequence selected from SEQ ID NO: 302.

252. The antibody of claim 191 wherein the antibody comprises a heavy chain sequence having at least 90% sequence identity to an amino acid sequence selected from any one of SEQ ID NOs: 243 or 244.

253. The antibody of claim 191 wherein the antibody comprises a light chain sequence having at least 90% sequence identity to an amino acid sequence selected from any one of SEQ ID NOs: 241 or 300.

254. The antibody of claim 191 wherein the antibody comprises a light chain sequence having at least 90% sequence identity to an amino acid sequence of SEQ ID NO: 241 and a heavy chain sequence having at least 90% sequence identity to an amino acid sequence of SEQ ID NO: 244.

255. The antibody of claim 191 wherein the antibody comprises a light chain sequence having at least 90% sequence identity to an amino acid sequence of SEQ ID NO: 300 and a heavy chain sequence having at least 90% sequence identity to an amino acid sequence of SEQ ID NO: 243.

256. A composition comprising the antibody of any of claims 1, 6-10, 58, 69, 80, 91, 115, 118, 121, 124, 251 or 258.

257. The composition of claim 256, wherein the composition comprises a carrier.

258. An antibody that binds to CD79b, wherein the antibody comprises a heavy chain variable domain having at least 90% sequence identity to an amino acid sequence selected from SEQ ID NO: 14 and a light chain variable domain having at least 90% sequence identity to an amino acid sequence selected from SEQ ID NO: 10.

CLAIMS

Claim 1: An isolated anti-CD79b cysteine engineered antibody comprising one or more free cysteine amino acids, and wherein the antibody comprises:

(a) a light chain variable domain comprising: (i) HVR-L1 comprising sequence A1-A15, wherein A1-A15 is KASQSVDYDGDSFLN (SEQ ID NO: 131), KASQSVDYEGDSFLN (SEQ ID NO:194), or KASQSVDYSGDSFLN (SEQ ID NO:213); (ii) HVR-L2 comprising sequence B1-B7, wherein B1-B7 is AASNLES (SEQ ID NO: 132); and (iii) HVR-L3 comprising sequence C1-C9, wherein C1-C9 is QQSNEDPLT (SEQ ID NO: 133); and

(b) a heavy chain variable domain comprising: (i) HVR-H1 comprising sequence D1-D10, wherein D1-D10 is GYTFSSYWIE (SEQ ID NO: 134); (ii) HVR-H2 comprising sequence E1-E18, wherein E1-E18 is GEILPGGGDTNYNEIFKG (SEQ ID NO: 135); and (iii) HVR-H3 comprising sequence F1-F10, wherein F1-F10 is TRRVPIRLDY (SEQ ID NO:138).

Claim 2: The cysteine engineered antibody of claim 1, wherein the light chain variable domain comprises: (i) HVR-L1 comprising sequence A1-A15, wherein A1-A15 is KASQSVDYDGDSFLN (SEQ ID NO: 131); (ii) HVR-L2 comprising sequence B1-B7, wherein B1-B7 is AASNLES (SEQ ID NO: 132); and (iii) HVR-L3 comprising sequence C1-C9, wherein C1-C9 is QQSNEDPLT (SEQ ID NO: 133); and the heavy chain variable domain comprises: (i) HVR-H1 comprising sequence D1-D10, wherein D1-D10 is GYTFSSYWIE (SEQ ID NO: 134); (ii) HVR-H2 comprising sequence E1-E18, wherein E1-E18 is GEILPGGGDTNYNEIFKG (SEQ ID NO: 135); and (iii) HVR-H3 comprsing sequence F1-F10, wherein F1-F10 is TRRVPIRLDY (SEQ ID NO:138).

Claim 3: The cysteine engineered antibody of claim 2, wherein the light chain variable domain comprises the sequence of SEQ ID NO:188 and heavy chain variable domain comprises the sequence of SEQ ID NO:189.

Claim 4: The cysteine engineered antibody of claim 1, wherein the light chain variable domain comprises: (i) HVR-L1 comprising sequence A1-A15, wherein A1-A15 is KASQSVDYEGDSFLN (SEQ ID NO:194); (ii) HVR-L2 comprising sequence B1-B7, wherein B1-B7 is AASNLES (SEQ ID NO: 132); and (iii) HVR-L3 comprising sequence C1-C9, wherein C1-C9 is QQSNEDPLT (SEQ ID NO: 133); and the heavy chain variable domain comprises: (i) HVR-H1 comprising sequence D1-D10, wherein D1-D10 is GYTFSSYWIE (SEQ ID NO: 134); (ii) HVR-H2 comprising sequence E1-E18, wherein E1-E18 is GEILPGGGDTNYNEIFKG (SEQ ID NO: 135); and (iii) HVR-H3 comprising sequence F1-F10, wherein F1-F10 is TRRVPIRLDY (SEQ ID NO:138).

Claim 5: The cysteine engineered antibody of claim 4, wherein the light chain variable domain comprises the sequence of SEQ ID NO:207 and heavy chain variable domain comprises the sequence of SEQ ID NO:208.

Claim 6: The cysteine engineered antibody of claim 1, wherein the light chain variable domain comprises: (i) HVR-L1 comprising sequence A1-A15, wherein A1-A15 is KASQSVDYSGDSFLN (SEQ ID NO:213); (ii) HVR-L2 comprising sequence B1-B7, wherein B1-B7 is AASNLES (SEQ ID NO: 132); and (iii) HVR-L3 comprising sequence C1-C9, wherein C1-C9 is QQSNEDPLT (SEQ ID NO: 133); and the heavy chain variable domain comprises: (i) HVR-H1 comprising sequence D1-D10, wherein D1-D10 is GYTFSSYWIE (SEQ ID NO: 134); (ii) HVR-H2 comprising sequence E1-E18, wherein E1-E18 is GEILPGGGDTNYNEIFKG (SEQ ID NO: 135); and (iii) HVR-H3 comprising sequence F1-F10, wherein F1-F10 is TRRVPIRLDY (SEQ ID NO:138).

Claim 7: The cysteine engineered antibody of claim 6, wherein the light chain variable domain comprises the sequence of SEQ ID NO:226 and heavy chain variable domain comprises the sequence of SEQ ID NO:227.

Claim 8: The cysteine engineered antibody of any one of claims 1-7, wherein the one or more free cysteine amino acids have a thio reactivity value in the range of 0.6 to 1.0.

Claim 9: The cysteine engineered antibody of any one of claims 1-8, wherein the antibody comprises one or more free cysteine amino acid residues located in a light chain.

Claim 10: The cysteine engineered antibody of claim 9, wherein the one or more free cysteine amino acid residues located in a light chain comprise one or more free cysteine amino acids at one or more positions selected from 15, 110, 114, 121, 127, 168 and 205 of the light chain according to Kabat numbering convention.

Claim 11: The cysteine engineered antibody of claim 10, wherein the antibody comprises the sequence selected from SEQ ID NO:278, SEQ ID NO:279, SEQ ID NO:280, SEQ ID NO:281, SEQ ID NO:282, SEQ ID NO:283, and SEQ ID NO:284.

Claim 12: The cysteine engineered antibody of any one of claims 9-11, wherein the one or more free cysteine amino acid residues located in a light chain comprise a free cysteine amino acid at position 205 of the light chain according to Kabat numbering convention.

Claim 13: The cysteine engineered antibody of claim 10, wherein the antibody comprises the sequence of SEQ ID NO:284.

Claim 14: The cysteine engineered antibody of any one of claims 1-13, wherein the antibody comprises one or more free cysteine amino acid residues located in a heavy chain.

Claim 15: The cysteine engineered antibody of claim 14, wherein the one or more free cysteine amino acid residues located in a heavy chain comprise one or more free cysteine amino acids at one or more positions selected from 5, 23, 84, and 112 of the heavy chain according to Kabat numbering convention and 118, 120, 282, 375 and 400 of the heavy chain according to EU numbering convention.

Claim 16: The cysteine engineered antibody of claim 15, wherein the antibody comprises the sequence selected from SEQ ID NO:251, SEQ ID NO:252, SEQ ID NO:253, SEQ ID NO:254, SEQ ID NO:255, SEQ ID NO:256, SEQ ID NO:257, SEQ ID NO:258, and SEQ ID NO:259.

Claim 17: The cysteine engineered antibody of any one of claims 14-16, wherein the one or more free cysteine amino acid residues located in a heavy chain comprise a free cysteine amino acid at position 118 of the heavy chain according to EU numbering convention.

Claim 18: The cysteine engineered antibody of claim 17, wherein the antibody comprises the sequence of SEQ ID NO:255.

Claim 19: The cysteine engineered antibody of any one of claims 14-18, wherein the one or more free cysteine amino acid residues located in a heavy chain comprise a free cysteine amino acid at position 400 of the heavy chain according to EU numbering convention.

Claim 20: The cysteine engineered antibody of claim 19, wherein the antibody comprises the sequence of SEQ ID NO:259.

Claim 21: The cysteine engineered antibody of claim 1, wherein the antibody comprises a light chain comprising the sequence of SEQ ID NO:231 and a heavy chain comprising the sequence of SEQ ID NO:230.

Claim 22: The cysteine engineered antibody of claim 1, wherein the antibody comprises a light chain comprising the sequence of SEQ ID NO:233 and a heavy chain comprising the sequence of SEQ ID NO:232.

Claim 23: The cysteine engineered antibody of any one of claims 1-22, wherein the antibody is selected from a monoclonal antibody, a bispecific antibody, a chimeric antibody, a human antibody, and a humanized antibody.

Claim 24: The cysteine engineered antibody of any one of claims 1-23, wherein the antibody is an antibody fragment.

Claim 25: The cysteine engineered antibody of claim 24, wherein the antibody fragment is a Fab fragment.

Claim 26: A polynucleotide encoding the antibody of any one of claims 1-25.

Claim 27: A vector comprising the polynucleotide of claim 26.

Claim 28: A host cell comprising the vector of claim 27.

Claim 29: The host cell of claim 28, wherein the host cell is a prokaryotic host cell.

Claim 30: An immunoconjugate comprising the cysteine engineered antibody of any one of claims 1-25 covalently attached through the one or more free cysteine amino acids to a cytotoxic agent.

Claim 31: The immunoconjugate of claim 30, wherein the cytotoxic agent is selected from a toxin, a chemotherapeutic agent, a drug moiety, an antibiotic, a radioactive isotope, and a nucleolytic enzyme.

Claim 32: An immunoconjugate comprising the antibody of any one of claims 1-25 covalently attached to a capture label, a detection label, or a solid support.

Claim 33: The immunoconjugate of claim 32, wherein the antibody is covalently attached to a capture label and the capture label comprises a biotin capture label.

Claim 34: The immunoconjugate of claim 32, wherein the antibody is covalently attached to a detection label and the detection label comprises a fluorescent dye detection label.

Claim 35: The immunoconjugate of claim 34 wherein the fluorescent dye is selected from a fluorescein type, a rhodamine type, dansyl, Lissamine, a cyanine, a phycoerythrin, Texas Red, and an analog thereof.

Claim 36: The immunoconjugate of claim 32 wherein the antibody is covalently attached to a detection label and the detection label comprises a radionuclide detection label selected from ^{3}H, ^{11}C, ^{14}C, ^{18}F, ^{32}P, ^{35}S, ^{64}Cu, ^{68}Ga, ^{86}Y, ^{99}Tc, ^{111}In, ^{123}I, ^{124}I, ^{125}I, ^{131}I, ^{133}Xe, ^{177}Lu, ^{211}At, and ^{213}Bi.

Claim 37: The immunoconjugate of any one of claims 32-36, wherein the antibody is covalently attached to a detection label and the antibody is covalently attached to the detection label by a chelating ligand.

Claim 38: The immunoconjugate of claim 37 wherein the chelating ligand is selected from DOTA, DOTP, DOTMA, DTPA and TETA.

Claim 39: The cysteine engineered antibody of any one of claims 1-25 comprising an albumin binding peptide.

Claim 40: The cysteine engineered antibody of claim 39, wherein the albumin binding peptide is selected from SEQ ID NOs: 246-250.

Claim 41: An immunoconjugate having the formula Ab-(L-D)p, wherein:

(a) Ab is the cysteine engineered antibody of any one of claims 1-25;

(b) L is a linker moiety which links Ab to D through the free cysteine amino acid;

(c) D is a drug moiety; and

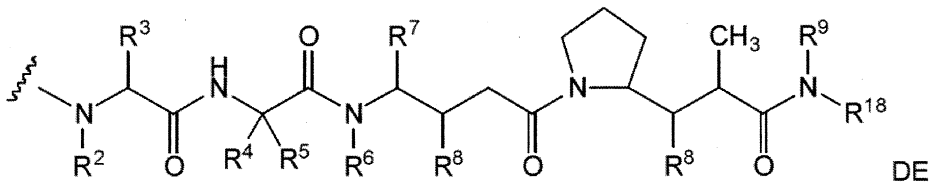
(d) p is 1 to 8.

Claim 42: The immunoconjugate of claim 41, wherein L comprises a linker selected from 6-maleimidocaproyl (MC), maleimidopropanoyl (MP), valine-citrulline (val-cit), alanine-phenylalanine (ala-phe), p-aminobenzyloxycarbonyl (PAB), N-Succinimidyl 4-(2-pyridylthio) pentanoate (SPP), N-succinimidyl 4-(N-maleimidomethyl) cyclohexane-1 carboxylate (SMCC),

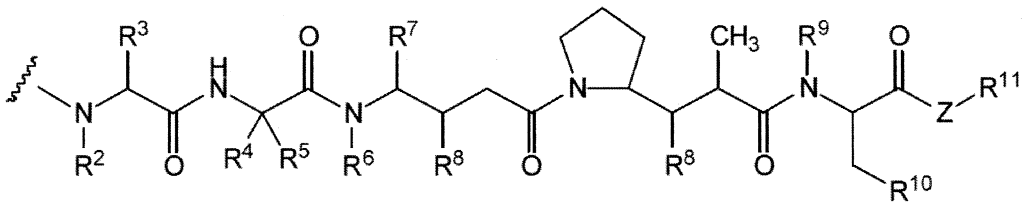
4-(2-Pyridyldithio)butyric acid-N-hydroxysuccinimide ester (SPDB), and N-Succinimidyl (4-iodo-acetyl) aminobenzoate (SIAB).

Claim 43: The immunoconjugate of any one of claims 41-42, wherein D is selected from the group consisting of a maytansinoid, an auristatin and dolostatin.

Claim 44: The immunoconjugate of claim 43, wherein D is an auristatin or dolostatin, and wherein D is a drug moiety of formula DE or DF:



DE



DF

and wherein R2 and R6 are each methyl, R3 and R4 are each isopropyl, R7 is sec-butyl, each R8 is independently selected from CH3, O-CH3, OH, and H; R9 is H; R10 is aryl; Z is –O– or –NH–; R11 is H, C1-C8 alkyl, or –(CH2)2–O–(CH2)2–O–(CH2)2–O–CH3; and R18 is –C(R8)2–C(R8)2–aryl.

Claim 45: The immunoconjugate of any one of claims 41-42, wherein D is selected from MMAE and MMAF.

Claim 46: The immunoconjugate of any one of claims 41-42, the immunoconjugate having the formula Ab-(L-MMAE)p, wherein p ranges from 2 to 5.

Claim 47: The immunoconjugate of any one of claims 41-42, the immunoconjugate having the formula Ab-(L-MMAF)p, wherein p ranges from 2 to 5.

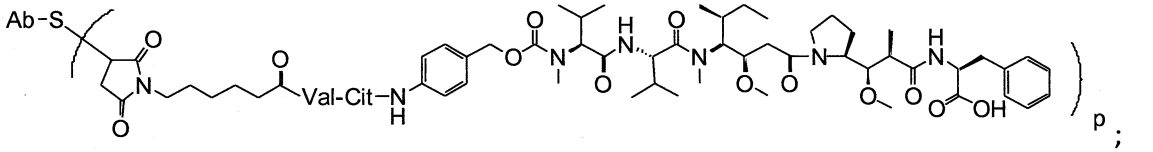
Claim 48: The immunoconjugate of any one of claims 41-47, wherein L comprises val-cit, MC, PAB and/or MC-PAB.

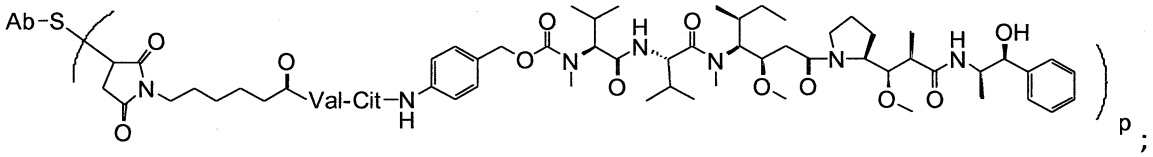
Claim 49: The immunoconjugate of any one of claims 41-48, wherein L comprises MC-val-cit-PAB.

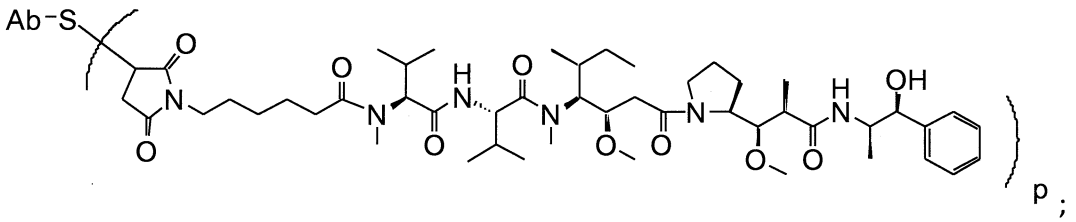
Claim 50: The immunoconjugate of any one of claims 41-43, wherein D is a maytansinoid.

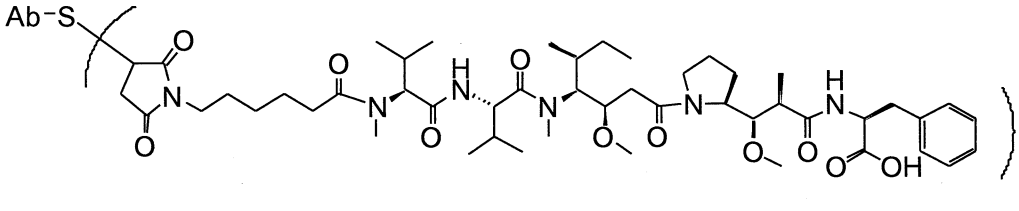
Claim 51: The immunoconjugate of claim 50, wherein maytansinoid is selected from DM1, DM3, and DM4.

Claim 52: The immunoconjugate of any one of claims 41-42, wherein the immunoconjugate is selected from the structures:

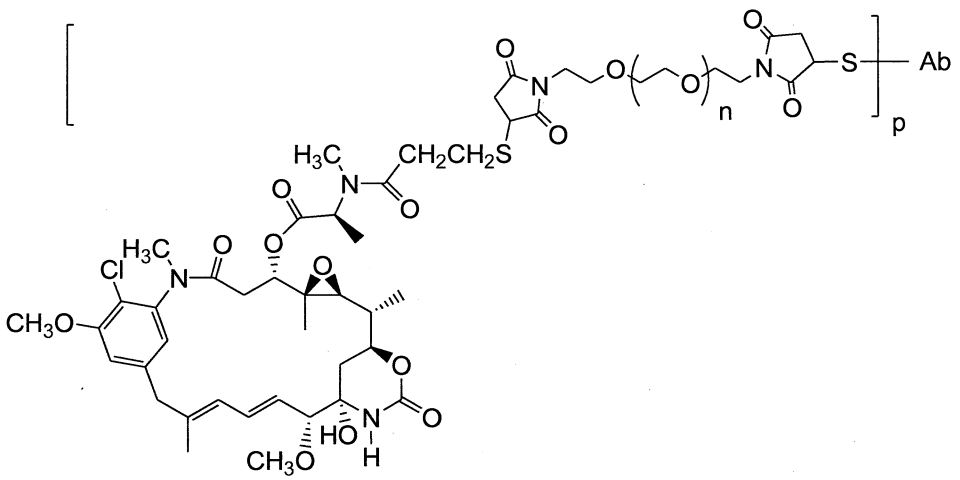






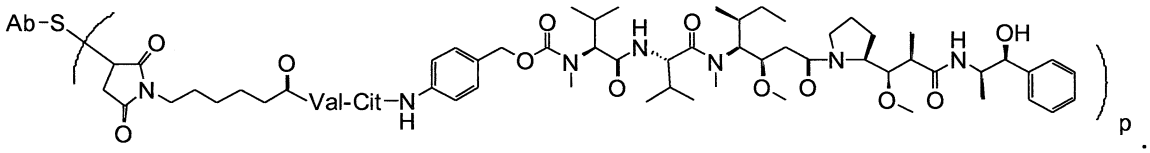


; and



, wherein Val is valine and Cit is citrulline. [*Support is found, for example, in original claim 222.*]

Claim 53: The immunoconjugate of claim 52, wherein the immunoconjugate is



.

Claim 54: The immunoconjugate of any one of claims 41-51, wherein p is from 2-4 or from 3-4.

Claim 55: A pharmaceutical composition comprising the antibody of any one of claims 1-25 or the immunoconjugate of any one of claims 41-54 and a pharmaceutically acceptable carrier.

Claim 56: Use of the antibody of any one of claims 1-25 or immunoconjugate of any one of claims 41-54 in the preparation of a medicament for inhibiting the growth of a cell that expresses CD79b.

Claim 57: The use of claim 56, wherein the medicament further comprises an effective amount of another therapeutic agent.

Claim 58: Use of the antibody of any of claims 1-25 or an immunoconjugate of any one of claims 41-54 in the preparation of a medicament for treating a proliferative disorder.

Claim 59: The use of claim 58, wherein said proliferative disorder is cancer.

Claim 60: The use of claim 59, wherein said cancer is selected from lymphoma, non-Hodgkins lymphoma (NHL), aggressive NHL, relapsed aggressive NHL, relapsed indolent NHL, refractory NHL, refractory indolent NHL, chronic lymphocytic leukemia (CLL), small lymphocytic lymphoma, leukemia, hairy cell leukemia (HCL), acute lymphocytic leukemia (ALL), and mantle cell lymphoma.

Claim 61: The use of any one of claims 58-60, wherein the medicament further comprises an effective amount of another therapeutic agent.

Claim 62: The use of claim 61, wherein the therapeutic agent is selected from the group consisting of an antibody, a chemotherapeutic agent, a cytotoxic agent, an anti-angiogenic agent, an immunosuppressive agent, a prodrug, a cytokine, a cytokine antagonist, cytotoxic radiotherapy, a corticosteroid, a cancer vaccine, or a growth-inhibitory agent.

Claim 63: The use of claim 61, wherein the therapeutic agent is selected from the group consisting of velcade, revlimid, tamoxifen, letrozole, exemestane, anastrozole, irinotecan, cetuximab, fulvestrant, vinorelbine, erlotinib, bevacizumab, vincristine, imatinib,

sorafenib, lapatinib, or trastuzumab, cisplatin, gemcitabine, methotrexate, vinblastine, carboplatin, paclitaxel, pemetrexed, 5-fluorouracil, doxorubicin, bortezomib, lenalidomide, melphalin, prednisone, dexamethasone, or docetaxel.

Claim 64: The use of claim 61, wherein the therapeutic agent is an anti-CD20 antibody.

Claim 65: The use of claim 61 or 64, further comprising one or more of cyclophosphamide, hydroxydaunorubicin, adriamycin, and doxorubincin.

Claim 66: An in vitro method of determining the presence of CD79b in a biological sample suspected of containing CD79b, said method comprising in vitro exposing said sample to the antibody claim 1-25, and determining binding of said antibody to CD79b in said sample wherein binding of said antibody to CD79b in said sample is indicative of the presence of said protein in said sample.

Claim 67: A method for making an antibody drug conjugate compound comprising the anti-CD79b antibody (Ab) of any one of claims 1-25, and an auristatin or maytansinoid drug moiety (D) wherein the antibody is attached through the one or more cysteine amino acids by a linker moiety (L) to D; the compound having Formula I:

$$Ab–(L–D)_p \qquad I$$

where p is 1, 2, 3, or 4; the method comprising the steps of:

(a) reacting an engineered cysteine group of the antibody with a linker reagent to form antibody-linker intermediate Ab-L; and

(b) reacting Ab-L with an activated drug moiety D; whereby the antibody-drug conjugate is formed;

or comprising the steps of:

(c) reacting a nucleophilic group of a drug moiety with a linker reagent to form drug-linker intermediate D-L; and

(d) reacting D-L with an engineered cysteine group of the antibody; whereby the antibody-drug conjugate is formed.

Claim 68: The method of claim 67, further comprising the step of expressing the antibody in Chinese hamster ovary (CHO) cells.

Claim 69: The method of any one of claims 67-68, further comprising the step of treating the expressed antibody with a reducing agent.

Claim 70: The method of claim 69, wherein the reducing agent is selected from TCEP and DTT.

Claim 71: The method of any one of claims 69-70, further comprising the step of treating the expressed antibody with an oxidizing agent, after treating with the reducing agent.

Claim 72: The method of claim 71, wherein the oxidizing agent is selected from copper sulfate, dehydroascorbic acid, and air.

Claim 73: An immunoconjugate comprising a cysteine engineered monoclonal anti-CD79b antibody comprising:

(a) a light chain variable domain comprising:

i. HVR-L1 comprising the amino acid sequence of SEQ ID NO: 194;

ii. HVR-L2 comprising the amino acid sequence of SEQ ID NO: 132; and

iii. HVR-L3 comprising the amino acid sequence of SEQ ID NO: 133; and

(b) a heavy chain variable domain comprising:

i. HVR-H1 comprising the amino acid sequence of SEQ ID NO: 134;

ii. HVR-H2 comprising the amino acid sequence of SEQ ID NO: 135; and

iii. HVR-H3 comprising the amino acid sequence of SEQ ID NO: 138;

which antibody is covalently attached to a therapeutic agent through the free cysteine amino acid.

Claim 74: An immunoconjugate comprising a cysteine engineered monoclonal anti-CD79b antibody comprising:

(a) a light chain variable domain comprising:

i. HVR-L1 comprising the amino acid sequence of SEQ ID NO: 131;

ii. HVR-L2 comprising the amino acid sequence of SEQ ID NO: 132; and

iii. HVR-L3 comprising the amino acid sequence of SEQ ID NO: 133; and

(b) a heavy chain variable domain comprising:

i. HVR-H1 comprising the amino acid sequence of SEQ ID NO: 134;

ii. HVR-H2 comprising the amino acid sequence of SEQ ID NO: 135; and

iii. HVR-H3 comprising the amino acid sequence of SEQ ID NO: 138;

which antibody is covalently attached to a therapeutic agent through the free cysteine amino acid.

Claim 75: An immunoconjugate having the formula Ab-(L-D)p, wherein:

(a) Ab is a cysteine engineered antibody, wherein the antibody is an isolated monoclonal anti-CD79b antibody comprising:

i. a light chain variable domain comprising:

a. HVR-L1 comprising the amino acid sequence of SEQ ID NO: 194;

b. HVR-L2 comprising the amino acid sequence of SEQ ID NO: 132; and

c. HVR-L3 comprising the amino acid sequence of SEQ ID NO: 133; and

ii. a heavy chain variable domain comprising:

a. HVR-H1 comprising the amino acid sequence of SEQ ID NO: 134;

b. HVR-H2 comprising the amino acid sequence of SEQ ID NO: 135; and

c. HVR-H3 comprising the amino acid sequence of SEQ ID NO: 138;

(b) L is a linker moiety which links Ab to D through the free cysteine amino acid, and wherein the linker is MC-VC-PAB;

(c) D is a drug moiety, wherein the drug moiety is MMAE; and

(d) p is 1 to 8.

Claim 76: The immunoconjugate of claim 75, wherein the heavy chain variable domain comprises the amino acid sequence of SEQ ID NO: 208 and the light chain variable domain comprises amino acid sequence of SEQ ID NO:207.

Claim 77: The immunoconjugate of claim 75, wherein the heavy chain comprises the amino acid sequence of SEQ ID NO: 233 and the light chain comprises amino acid sequence of SEQ ID NO:232.

Claim 78: An immunoconjugate having the formula Ab-(L-D)p, wherein:

(a) Ab is a cysteine engineered antibody, wherein the antibody is an isolated monoclonal anti-CD79b antibody comprising:

i. a light chain variable domain comprising:

a. HVR-L1 comprising the amino acid sequence of SEQ ID NO: 131;

b. HVR-L2 comprising the amino acid sequence of SEQ ID NO: 132; and

c. HVR-L3 comprising the amino acid sequence of SEQ ID NO: 133; and

ii. a heavy chain variable domain comprising:

a. HVR-H1 comprising the amino acid sequence of SEQ ID NO: 134;

b. HVR-H2 comprising the amino acid sequence of SEQ ID NO: 135; and

c. HVR-H3 comprising the amino acid sequence of SEQ ID NO: 138;

(b) L is a linker moiety which links Ab to D through the free cysteine amino acid, and wherein the linker is MC-VC-PAB;

(c) D is a drug moiety, wherein the drug moiety is MMAE; and

(d) p is 1 to 8.

Claim 79: The immunoconjugate of claim 78, wherein the heavy chain variable domain comprises the amino acid sequence of SEQ ID NO: 189 and the light chain variable domain comprises amino acid sequence of SEQ ID NO: 188.

Claim 80: The immunoconjugate of claim 78, wherein the heavy chain comprises the amino acid sequence of SEQ ID NO: 231 and the light chain comprises amino acid sequence of SEQ ID NO: 230.