Claims

1. A binding molecule which is at least bispecific comprising a first and a second binding domain, wherein
   (a) the first binding domain is capable of binding to epitope cluster 3 of BCMA (CQLRCSSNTPPLTCQRYC); and
   (b) the second binding domain is capable of binding to CD3 epsilon; and
   wherein epitope cluster 3 of BCMA corresponds to amino acid residues 24 to 41 of the sequence as depicted in SEQ ID NO: 1002,
   wherein said binding molecule is a polypeptide,
   and wherein the first and the second binding domain comprise the CDRs of an antibody.

2. The binding molecule according to claim 1, wherein the first binding domain is further capable of binding to epitope cluster 3 of macaque BCMA (CQLRCSSTPPLTCQRYC).

3. The binding molecule according to claim 1 or 2, wherein the first binding domain comprises a VH region comprising CDR-H1, CDR-H2 and CDR-H3 and a VL region comprising CDR-L1, CDR-L2 and CDR-L3 selected from the group consisting of:
   (1) CDR-H1 as depicted in SEQ ID NO: 1, CDR-H2 as depicted in SEQ ID NO: 2, CDR-H3 as depicted in SEQ ID NO: 3, CDR-L1 as depicted in SEQ ID NO: 4, CDR-L2 as depicted in SEQ ID NO: 5 and CDR-L3 as depicted in SEQ ID NO: 6;
   (2) CDR-H1 as depicted in SEQ ID NO: 11, CDR-H2 as depicted in SEQ ID NO: 12, CDR-H3 as depicted in SEQ ID NO: 13, CDR-L1 as depicted in SEQ ID NO: 14, CDR-L2 as depicted in SEQ ID NO: 15 and CDR-L3 as depicted in SEQ ID NO: 16;
   (3) CDR-H1 as depicted in SEQ ID NO: 21, CDR-H2 as depicted in SEQ ID NO: 22, CDR-H3 as depicted in SEQ ID NO: 23, CDR-L1 as depicted in SEQ ID NO: 24, CDR-L2 as depicted in SEQ ID NO: 25 and CDR-L3 as depicted in SEQ ID NO: 26;
   (4) CDR-H1 as depicted in SEQ ID NO: 31, CDR-H2 as depicted in SEQ ID NO: 32, CDR-H3 as depicted in SEQ ID NO: 33, CDR-L1 as depicted in SEQ ID NO: 34, CDR-L2 as depicted in SEQ ID NO: 35 and CDR-L3 as depicted in SEQ ID NO: 36;
   (5) CDR-H1 as depicted in SEQ ID NO: 41, CDR-H2 as depicted in SEQ ID NO: 42, CDR-H3 as depicted in SEQ ID NO: 43, CDR-L1 as depicted in SEQ ID NO: 44,

CDR-L2 as depicted in SEQ ID NO: 45 and CDR-L3 as depicted in SEQ ID NO: 46;

(6) CDR-H1 as depicted in SEQ ID NO: 51, CDR-H2 as depicted in SEQ ID NO: 52, CDR-H3 as depicted in SEQ ID NO: 53, CDR-L1 as depicted in SEQ ID NO: 54, CDR-L2 as depicted in SEQ ID NO: 55 and CDR-L3 as depicted in SEQ ID NO: 56;

(7) CDR-H1 as depicted in SEQ ID NO: 61, CDR-H2 as depicted in SEQ ID NO: 62, CDR-H3 as depicted in SEQ ID NO: 63, CDR-L1 as depicted in SEQ ID NO: 64, CDR-L2 as depicted in SEQ ID NO: 65 and CDR-L3 as depicted in SEQ ID NO: 66;

(8) CDR-H1 as depicted in SEQ ID NO: 71, CDR-H2 as depicted in SEQ ID NO: 72, CDR-H3 as depicted in SEQ ID NO: 73, CDR-L1 as depicted in SEQ ID NO: 74, CDR-L2 as depicted in SEQ ID NO: 75 and CDR-L3 as depicted in SEQ ID NO: 76;

(9) CDR-H1 as depicted in SEQ ID NO: 161, CDR-H2 as depicted in SEQ ID NO: 162, CDR-H3 as depicted in SEQ ID NO: 163, CDR-L1 as depicted in SEQ ID NO: 164, CDR-L2 as depicted in SEQ ID NO: 165 and CDR-L3 as depicted in SEQ ID NO: 166;

(10) CDR-H1 as depicted in SEQ ID NO: 171, CDR-H2 as depicted in SEQ ID NO: 172, CDR-H3 as depicted in SEQ ID NO: 173, CDR-L1 as depicted in SEQ ID NO: 174, CDR-L2 as depicted in SEQ ID NO: 175 and CDR-L3 as depicted in SEQ ID NO: 176;

(11) CDR-H1 as depicted in SEQ ID NO: 181, CDR-H2 as depicted in SEQ ID NO: 182, CDR-H3 as depicted in SEQ ID NO: 183, CDR-L1 as depicted in SEQ ID NO: 184, CDR-L2 as depicted in SEQ ID NO: 185 and CDR-L3 as depicted in SEQ ID NO: 186;

(12) CDR-H1 as depicted in SEQ ID NO: 191, CDR-H2 as depicted in SEQ ID NO: 192, CDR-H3 as depicted in SEQ ID NO: 193, CDR-L1 as depicted in SEQ ID NO: 194, CDR-L2 as depicted in SEQ ID NO: 195 and CDR-L3 as depicted in SEQ ID NO: 196;

(13) CDR-H1 as depicted in SEQ ID NO: 201, CDR-H2 as depicted in SEQ ID NO: 202, CDR-H3 as depicted in SEQ ID NO: 203, CDR-L1 as depicted in SEQ ID NO: 204, CDR-L2 as depicted in SEQ ID NO: 205 and CDR-L3 as depicted in SEQ ID NO: 206;

(14) CDR-H1 as depicted in SEQ ID NO: 211, CDR-H2 as depicted in SEQ ID NO: 212, CDR-H3 as depicted in SEQ ID NO: 213, CDR-L1 as depicted in

SEQ ID NO:214 , CDR-L2 as depicted in SEQ ID NO: 215 and CDR-L3 as depicted in SEQ ID NO: 216;

(15) CDR-H1 as depicted in SEQ ID NO: 221, CDR-H2 as depicted in SEQ ID NO: 222, CDR-H3 as depicted in SEQ ID NO: 223, CDR-L1 as depicted in SEQ ID NO: 224, CDR-L2 as depicted in SEQ ID NO: 225 and CDR-L3 as depicted in SEQ ID NO: 226;

(16) CDR-H1 as depicted in SEQ ID NO: 311, CDR-H2 as depicted in SEQ ID NO: 312, CDR-H3 as depicted in SEQ ID NO: 313, CDR-L1 as depicted in SEQ ID NO: 314, CDR-L2 as depicted in SEQ ID NO: 315 and CDR-L3 as depicted in SEQ ID NO: 316;

(17) CDR-H1 as depicted in SEQ ID NO: 321, CDR-H2 as depicted in SEQ ID NO: 322, CDR-H3 as depicted in SEQ ID NO: 323, CDR-L1 as depicted in SEQ ID NO: 324, CDR-L2 as depicted in SEQ ID NO: 325 and CDR-L3 as depicted in SEQ ID NO: 326;

(18) CDR-H1 as depicted in SEQ ID NO: 331, CDR-H2 as depicted in SEQ ID NO: 332, CDR-H3 as depicted in SEQ ID NO: 333, CDR-L1 as depicted in SEQ ID NO: 334, CDR-L2 as depicted in SEQ ID NO: 335 and CDR-L3 as depicted in SEQ ID NO: 336;

(19) CDR-H1 as depicted in SEQ ID NO: 341, CDR-H2 as depicted in SEQ ID NO: 342, CDR-H3 as depicted in SEQ ID NO: 343, CDR-L1 as depicted in SEQ ID NO: 344, CDR-L2 as depicted in SEQ ID NO: 345 and CDR-L3 as depicted in SEQ ID NO: 346;

(20) CDR-H1 as depicted in SEQ ID NO: 351, CDR-H2 as depicted in SEQ ID NO: 352, CDR-H3 as depicted in SEQ ID NO: 353, CDR-L1 as depicted in SEQ ID NO: 354, CDR-L2 as depicted in SEQ ID NO: 355 and CDR-L3 as depicted in SEQ ID NO: 356;

(21) CDR-H1 as depicted in SEQ ID NO: 361, CDR-H2 as depicted in SEQ ID NO: 362, CDR-H3 as depicted in SEQ ID NO: 363, CDR-L1 as depicted in SEQ ID NO: 364, CDR-L2 as depicted in SEQ ID NO: 365 and CDR-L3 as depicted in SEQ ID NO: 366;

(22) CDR-H1 as depicted in SEQ ID NO: 371, CDR-H2 as depicted in SEQ ID NO: 372, CDR-H3 as depicted in SEQ ID NO: 373, CDR-L1 as depicted in SEQ ID NO: 374, CDR-L2 as depicted in SEQ ID NO: 375 and CDR-L3 as depicted in SEQ ID NO: 376;

(23) CDR-H1 as depicted in SEQ ID NO: 381, CDR-H2 as depicted in SEQ ID NO: 382, CDR-H3 as depicted in SEQ ID NO: 383, CDR-L1 as depicted in

SEQ ID NO: 384, CDR-L2 as depicted in SEQ ID NO: 385 and CDR-L3 as depicted in SEQ ID NO: 386;

(24) CDR-H1 as depicted in SEQ ID NO: 581, CDR-H2 as depicted in SEQ ID NO: 582, CDR-H3 as depicted in SEQ ID NO: 583, CDR-L1 as depicted in SEQ ID NO: 584, CDR-L2 as depicted in SEQ ID NO: 585 and CDR-L3 as depicted in SEQ ID NO: 586;

(25) CDR-H1 as depicted in SEQ ID NO: 591, CDR-H2 as depicted in SEQ ID NO: 592, CDR-H3 as depicted in SEQ ID NO: 593, CDR-L1 as depicted in SEQ ID NO: 594, CDR-L2 as depicted in SEQ ID NO: 595 and CDR-L3 as depicted in SEQ ID NO: 596;

(26) CDR-H1 as depicted in SEQ ID NO: 601, CDR-H2 as depicted in SEQ ID NO: 602, CDR-H3 as depicted in SEQ ID NO: 603, CDR-L1 as depicted in SEQ ID NO: 604, CDR-L2 as depicted in SEQ ID NO: 605 and CDR-L3 as depicted in SEQ ID NO: 606;

(27) CDR-H1 as depicted in SEQ ID NO: 611, CDR-H2 as depicted in SEQ ID NO: 612, CDR-H3 as depicted in SEQ ID NO: 613, CDR-L1 as depicted in SEQ ID NO: 614, CDR-L2 as depicted in SEQ ID NO: 615 and CDR-L3 as depicted in SEQ ID NO: 616;

(28) CDR-H1 as depicted in SEQ ID NO: 621, CDR-H2 as depicted in SEQ ID NO: 622, CDR-H3 as depicted in SEQ ID NO: 623, CDR-L1 as depicted in SEQ ID NO: 624, CDR-L2 as depicted in SEQ ID NO: 625 and CDR-L3 as depicted in SEQ ID NO: 626;

(29) CDR-H1 as depicted in SEQ ID NO: 631, CDR-H2 as depicted in SEQ ID NO: 632, CDR-H3 as depicted in SEQ ID NO: 633, CDR-L1 as depicted in SEQ ID NO: 634, CDR-L2 as depicted in SEQ ID NO: 635 and CDR-L3 as depicted in SEQ ID NO: 636;

(30) CDR-H1 as depicted in SEQ ID NO: 641, CDR-H2 as depicted in SEQ ID NO: 642, CDR-H3 as depicted in SEQ ID NO: 643, CDR-L1 as depicted in SEQ ID NO: 644, CDR-L2 as depicted in SEQ ID NO: 645 and CDR-L3 as depicted in SEQ ID NO: 646;

(31) CDR-H1 as depicted in SEQ ID NO: 651, CDR-H2 as depicted in SEQ ID NO: 652, CDR-H3 as depicted in SEQ ID NO: 653, CDR-L1 as depicted in SEQ ID NO: 654, CDR-L2 as depicted in SEQ ID NO: 655 and CDR-L3 as depicted in SEQ ID NO: 656;

(32) CDR-H1 as depicted in SEQ ID NO: 661, CDR-H2 as depicted in SEQ ID NO: 662, CDR-H3 as depicted in SEQ ID NO: 663, CDR-L1 as depicted in

SEQ ID NO: 664, CDR-L2 as depicted in SEQ ID NO: 665 and CDR-L3 as depicted in SEQ ID NO: 666;

(33) CDR-H1 as depicted in SEQ ID NO: 671, CDR-H2 as depicted in SEQ ID NO: 672, CDR-H3 as depicted in SEQ ID NO: 673, CDR-L1 as depicted in SEQ ID NO: 674, CDR-L2 as depicted in SEQ ID NO: 675 and CDR-L3 as depicted in SEQ ID NO: 676;

(34) CDR-H1 as depicted in SEQ ID NO: 681, CDR-H2 as depicted in SEQ ID NO: 682, CDR-H3 as depicted in SEQ ID NO: 683, CDR-L1 as depicted in SEQ ID NO: 684, CDR-L2 as depicted in SEQ ID NO: 685 and CDR-L3 as depicted in SEQ ID NO: 686;

(35) CDR-H1 as depicted in SEQ ID NO: 691, CDR-H2 as depicted in SEQ ID NO: 692, CDR-H3 as depicted in SEQ ID NO: 693, CDR-L1 as depicted in SEQ ID NO: 694, CDR-L2 as depicted in SEQ ID NO: 695 and CDR-L3 as depicted in SEQ ID NO: 696;

(36) CDR-H1 as depicted in SEQ ID NO: 701, CDR-H2 as depicted in SEQ ID NO: 702, CDR-H3 as depicted in SEQ ID NO: 703, CDR-L1 as depicted in SEQ ID NO: 704, CDR-L2 as depicted in SEQ ID NO: 705 and CDR-L3 as depicted in SEQ ID NO: 706;

(37) CDR-H1 as depicted in SEQ ID NO: 711, CDR-H2 as depicted in SEQ ID NO: 712, CDR-H3 as depicted in SEQ ID NO: 713, CDR-L1 as depicted in SEQ ID NO: 714, CDR-L2 as depicted in SEQ ID NO: 715 and CDR-L3 as depicted in SEQ ID NO: 716;

(38) CDR-H1 as depicted in SEQ ID NO: 721, CDR-H2 as depicted in SEQ ID NO: 722, CDR-H3 as depicted in SEQ ID NO: 723, CDR-L1 as depicted in SEQ ID NO: 724, CDR-L2 as depicted in SEQ ID NO: 725 and CDR-L3 as depicted in SEQ ID NO: 726;

(39) CDR-H1 as depicted in SEQ ID NO: 731, CDR-H2 as depicted in SEQ ID NO: 732, CDR-H3 as depicted in SEQ ID NO: 733, CDR-L1 as depicted in SEQ ID NO: 734, CDR-L2 as depicted in SEQ ID NO: 735 and CDR-L3 as depicted in SEQ ID NO: 736;

(40) CDR-H1 as depicted in SEQ ID NO: 741, CDR-H2 as depicted in SEQ ID NO: 742, CDR-H3 as depicted in SEQ ID NO: 743, CDR-L1 as depicted in SEQ ID NO: 744, CDR-L2 as depicted in SEQ ID NO: 745 and CDR-L3 as depicted in SEQ ID NO: 746;

(41) CDR-H1 as depicted in SEQ ID NO: 751, CDR-H2 as depicted in SEQ ID NO: 752, CDR-H3 as depicted in SEQ ID NO: 753, CDR-L1 as depicted in

SEQ ID NO: 754, CDR-L2 as depicted in SEQ ID NO: 755 and CDR-L3 as depicted in SEQ ID NO: 756;

(42) CDR-H1 as depicted in SEQ ID NO: 761, CDR-H2 as depicted in SEQ ID NO: 762, CDR-H3 as depicted in SEQ ID NO: 763, CDR-L1 as depicted in SEQ ID NO: 764, CDR-L2 as depicted in SEQ ID NO: 765 and CDR-L3 as depicted in SEQ ID NO: 766;

(43) CDR-H1 as depicted in SEQ ID NO: 771, CDR-H2 as depicted in SEQ ID NO: 772, CDR-H3 as depicted in SEQ ID NO: 773, CDR-L1 as depicted in SEQ ID NO: 774, CDR-L2 as depicted in SEQ ID NO: 775 and CDR-L3 as depicted in SEQ ID NO: 776;

(44) CDR-H1 as depicted in SEQ ID NO: 781, CDR-H2 as depicted in SEQ ID NO: 782, CDR-H3 as depicted in SEQ ID NO: 783, CDR-L1 as depicted in SEQ ID NO: 784, CDR-L2 as depicted in SEQ ID NO: 785 and CDR-L3 as depicted in SEQ ID NO: 786;

(45) CDR-H1 as depicted in SEQ ID NO: 791, CDR-H2 as depicted in SEQ ID NO: 792, CDR-H3 as depicted in SEQ ID NO: 793, CDR-L1 as depicted in SEQ ID NO: 794, CDR-L2 as depicted in SEQ ID NO: 795 and CDR-L3 as depicted in SEQ ID NO: 796;

(46) CDR-H1 as depicted in SEQ ID NO: 801, CDR-H2 as depicted in SEQ ID NO: 802, CDR-H3 as depicted in SEQ ID NO: 803, CDR-L1 as depicted in SEQ ID NO: 804, CDR-L2 as depicted in SEQ ID NO: 805 and CDR-L3 as depicted in SEQ ID NO: 806;

(47) CDR-H1 as depicted in SEQ ID NO: 811, CDR-H2 as depicted in SEQ ID NO: 812, CDR-H3 as depicted in SEQ ID NO: 813, CDR-L1 as depicted in SEQ ID NO: 814, CDR-L2 as depicted in SEQ ID NO: 815 and CDR-L3 as depicted in SEQ ID NO: 816;

(48) CDR-H1 as depicted in SEQ ID NO: 821, CDR-H2 as depicted in SEQ ID NO: 822, CDR-H3 as depicted in SEQ ID NO: 823, CDR-L1 as depicted in SEQ ID NO: 824, CDR-L2 as depicted in SEQ ID NO: 825 and CDR-L3 as depicted in SEQ ID NO: 826;

(49) CDR-H1 as depicted in SEQ ID NO: 831, CDR-H2 as depicted in SEQ ID NO: 832, CDR-H3 as depicted in SEQ ID NO: 833, CDR-L1 as depicted in SEQ ID NO: 834, CDR-L2 as depicted in SEQ ID NO: 835 and CDR-L3 as depicted in SEQ ID NO: 836;

(50) CDR-H1 as depicted in SEQ ID NO: 961, CDR-H2 as depicted in SEQ ID NO: 962, CDR-H3 as depicted in SEQ ID NO: 963, CDR-L1 as depicted in

SEQ ID NO: 964, CDR-L2 as depicted in SEQ ID NO: 965 and CDR-L3 as depicted in SEQ ID NO: 966;

(51) CDR-H1 as depicted in SEQ ID NO: 971, CDR-H2 as depicted in SEQ ID NO: 972, CDR-H3 as depicted in SEQ ID NO: 973, CDR-L1 as depicted in SEQ ID NO: 974, CDR-L2 as depicted in SEQ ID NO: 975 and CDR-L3 as depicted in SEQ ID NO: 976;

(52) CDR-H1 as depicted in SEQ ID NO: 981, CDR-H2 as depicted in SEQ ID NO: 982, CDR-H3 as depicted in SEQ ID NO: 983, CDR-L1 as depicted in SEQ ID NO: 984, CDR-L2 as depicted in SEQ ID NO: 985 and CDR-L3 as depicted in SEQ ID NO: 986; and

(53) CDR-H1 as depicted in SEQ ID NO: 991, CDR-H2 as depicted in SEQ ID NO: 992, CDR-H3 as depicted in SEQ ID NO: 993, CDR-L1 as depicted in SEQ ID NO: 994, CDR-L2 as depicted in SEQ ID NO: 995 and CDR-L3 as depicted in SEQ ID NO: 996.

4. The binding molecule according to any one of the preceding claims, wherein the first binding domain comprises a VH region selected from the group consisting of VH regions as depicted in SEQ ID NO: 7, SEQ ID NO: 17, SEQ ID NO: 27, SEQ ID NO: 37, SEQ ID NO: 47, SEQ ID NO: 57, SEQ ID NO: 67, SEQ ID NO: 77, SEQ ID NO: 167, SEQ ID NO: 177, SEQ ID NO: 187, SEQ ID NO: 197, SEQ ID NO: 207, SEQ ID NO: 217, SEQ ID NO: 227, SEQ ID NO: 317, SEQ ID NO: 327, SEQ ID NO: 337, SEQ ID NO: 347, SEQ ID NO: 357, SEQ ID NO: 367, SEQ ID NO: 377, SEQ ID NO: 387, SEQ ID NO: 587, SEQ ID NO: 597, SEQ ID NO: 607, SEQ ID NO: 617, SEQ ID NO: 627, SEQ ID NO: 637, SEQ ID NO: 647, SEQ ID NO: 657, SEQ ID NO: 667, SEQ ID NO: 677, SEQ ID NO: 687, SEQ ID NO: 697, SEQ ID NO: 707, SEQ ID NO: 717, SEQ ID NO: 727, SEQ ID NO: 737, SEQ ID NO: 747, SEQ ID NO: 757, SEQ ID NO: 767, SEQ ID NO: 777, SEQ ID NO: 787, SEQ ID NO: 797, SEQ ID NO: 807, SEQ ID NO: 817, SEQ ID NO: 827, SEQ ID NO: 837, SEQ ID NO: 967, SEQ ID NO: 977, SEQ ID NO: 987, and SEQ ID NO: 997.

5. The binding molecule according to any one of the preceding claims, wherein the first binding domain comprises a VL region selected from the group consisting of VL regions as depicted in SEQ ID NO: 8, SEQ ID NO: 18, SEQ ID NO: 28, SEQ ID NO: 38, SEQ ID NO: 48, SEQ ID NO: 58, SEQ ID NO: 68, SEQ ID NO: 78, SEQ ID NO: 168, SEQ ID NO: 178, SEQ ID NO: 188, SEQ ID NO: 198, SEQ ID NO: 208, SEQ ID NO: 218, SEQ ID NO: 228, SEQ ID NO: 318, SEQ ID NO: 328, SEQ ID NO: 338,

SEQ ID NO: 348, SEQ ID NO: 358, SEQ ID NO: 368, SEQ ID NO: 378, SEQ ID NO: 388, SEQ ID NO: 588, SEQ ID NO: 598, SEQ ID NO: 608, SEQ ID NO: 618, SEQ ID NO: 628, SEQ ID NO: 638, SEQ ID NO: 648, SEQ ID NO: 658, SEQ ID NO: 668, SEQ ID NO: 678, SEQ ID NO: 688, SEQ ID NO: 698, SEQ ID NO: 708, SEQ ID NO: 718, SEQ ID NO: 728, SEQ ID NO: 738, SEQ ID NO: 748, SEQ ID NO: 758, SEQ ID NO: 768, SEQ ID NO: 778, SEQ ID NO: 788, SEQ ID NO: 798, SEQ ID NO: 808, SEQ ID NO: 818, SEQ ID NO: 828, SEQ ID NO: 838, SEQ ID NO: 968, SEQ ID NO: 978, SEQ ID NO: 988, and SEQ ID NO: 998.

6. The binding molecule according to any one of the preceding claims, wherein the first binding domain comprises a VH region and a VL region selected from the group consisting of:

(1) a VH region as depicted in SEQ ID NO: 7, and a VL region as depicted in SEQ ID NO: 8;

(2) a VH region as depicted in SEQ ID NO: 17, and a VL region as depicted in SEQ ID NO: 18;

(3) a VH region as depicted in SEQ ID NO: 27, and a VL region as depicted in SEQ ID NO: 28;

(4) a VH region as depicted in SEQ ID NO: 37, and a VL region as depicted in SEQ ID NO: 38;

(5) a VH region as depicted in SEQ ID NO: 47, and a VL region as depicted in SEQ ID NO: 48;

(6) a VH region as depicted in SEQ ID NO: 57, and a VL region as depicted in SEQ ID NO: 58;

(7) a VH region as depicted in SEQ ID NO: 67, and a VL region as depicted in SEQ ID NO: 68;

(8) a VH region as depicted in SEQ ID NO: 77, and a VL region as depicted in SEQ ID NO: 78;

(9) a VH region as depicted in SEQ ID NO: 167, and a VL region as depicted in SEQ ID NO: 168;

(10) a VH region as depicted in SEQ ID NO: 177, and a VL region as depicted in SEQ ID NO: 178;

(11) a VH region as depicted in SEQ ID NO: 187, and a VL region as depicted in SEQ ID NO: 188;

(12) a VH region as depicted in SEQ ID NO: 197, and a VL region as depicted in SEQ ID NO: 198;

(13) a VH region as depicted in SEQ ID NO: 207, and a VL region as depicted in SEQ ID NO: 208;

(14) a VH region as depicted in SEQ ID NO: 217, and a VL region as depicted in SEQ ID NO: 218;

(15) a VH region as depicted in SEQ ID NO: 227, and a VL region as depicted in SEQ ID NO: 228;

(16) a VH region as depicted in SEQ ID NO: 317, and a VL region as depicted in SEQ ID NO: 318;

(17) a VH region as depicted in SEQ ID NO: 327, and a VL region as depicted in SEQ ID NO: 328;

(18) a VH region as depicted in SEQ ID NO: 337, and a VL region as depicted in SEQ ID NO: 338;

(19) a VH region as depicted in SEQ ID NO: 347, and a VL region as depicted in SEQ ID NO: 348;

(20) a VH region as depicted in SEQ ID NO: 357, and a VL region as depicted in SEQ ID NO: 358;

(21) a VH region as depicted in SEQ ID NO: 367, and a VL region as depicted in SEQ ID NO: 368;

(22) a VH region as depicted in SEQ ID NO: 377, and a VL region as depicted in SEQ ID NO: 378;

(23) a VH region as depicted in SEQ ID NO: 387, and a VL region as depicted in SEQ ID NO: 388;

(24) a VH region as depicted in SEQ ID NO: 587, and a VL region as depicted in SEQ ID NO: 588;

(25) a VH region as depicted in SEQ ID NO: 597, and a VL region as depicted in SEQ ID NO: 598;

(26) a VH region as depicted in SEQ ID NO: 607, and a VL region as depicted in SEQ ID NO: 608;

(27) a VH region as depicted in SEQ ID NO: 617, and a VL region as depicted in SEQ ID NO: 618;

(28) a VH region as depicted in SEQ ID NO: 627, and a VL region as depicted in SEQ ID NO: 628;

(29) a VH region as depicted in SEQ ID NO: 637, and a VL region as depicted in SEQ ID NO: 638;

(30) a VH region as depicted in SEQ ID NO: 647, and a VL region as depicted in SEQ ID NO: 648;

(31) a VH region as depicted in SEQ ID NO: 657, and a VL region as depicted in SEQ ID NO: 658;

(32) a VH region as depicted in SEQ ID NO: 667, and a VL region as depicted in SEQ ID NO: 668;

(33) a VH region as depicted in SEQ ID NO: 677, and a VL region as depicted in SEQ ID NO: 678;

(34) a VH region as depicted in SEQ ID NO: 687, and a VL region as depicted in SEQ ID NO: 688;

(35) a VH region as depicted in SEQ ID NO: 697, and a VL region as depicted in SEQ ID NO: 698;

(36) a VH region as depicted in SEQ ID NO: 707, and a VL region as depicted in SEQ ID NO: 708;

(37) a VH region as depicted in SEQ ID NO: 717, and a VL region as depicted in SEQ ID NO: 718;

(38) a VH region as depicted in SEQ ID NO: 727, and a VL region as depicted in SEQ ID NO: 728;

(39) a VH region as depicted in SEQ ID NO: 737, and a VL region as depicted in SEQ ID NO: 738;

(40) a VH region as depicted in SEQ ID NO: 747, and a VL region as depicted in SEQ ID NO: 748;

(41) a VH region as depicted in SEQ ID NO: 757, and a VL region as depicted in SEQ ID NO: 758;

(42) a VH region as depicted in SEQ ID NO: 767, and a VL region as depicted in SEQ ID NO: 768;

(43) a VH region as depicted in SEQ ID NO: 777, and a VL region as depicted in SEQ ID NO: 778;

(44) a VH region as depicted in SEQ ID NO: 787, and a VL region as depicted in SEQ ID NO: 788;

(45) a VH region as depicted in SEQ ID NO: 797, and a VL region as depicted in SEQ ID NO: 798;

(46) a VH region as depicted in SEQ ID NO: 807, and a VL region as depicted in SEQ ID NO: 808;

(47) a VH region as depicted in SEQ ID NO: 817, and a VL region as depicted in SEQ ID NO: 818;

(48) a VH region as depicted in SEQ ID NO: 827, and a VL region as depicted in SEQ ID NO: 828;

(49) a VH region as depicted in SEQ ID NO: 837, and a VL region as depicted in SEQ ID NO: 838;
(50) a VH region as depicted in SEQ ID NO: 967, and a VL region as depicted in SEQ ID NO: 968;
(51) a VH region as depicted in SEQ ID NO: 977, and a VL region as depicted in SEQ ID NO: 978;
(52) a VH region as depicted in SEQ ID NO: 987, and a VL region as depicted in SEQ ID NO: 988; and
(53) a VH region as depicted in SEQ ID NO: 997, and a VL region as depicted in SEQ ID NO: 998.

7. The binding molecule according to claim 1 or 2 having the amino acid sequence shown in SEQ ID NO: 340 or SEQ ID NO: 980.

8. The binding molecule according to any one of the preceding claims, characterized by an EC50 (pg/ml) of 350 or less, preferably 320 or less, wherein the EC50 is measured in a FACS based cytotoxicity assay with unstimulated human PBMCs as effector cells and BCMA transfected CHO cells as target cells.

9. The binding molecule according to any one of the preceding claims, characterized by an EC50 (pg/ml) which equates to the EC50 (pg/ml) of any one of the BCMA/CD3 bispecific binding molecules as set out in SEQ ID NO:829xCD3, SEQ ID NO:619xCD3 SEQ ID NO:49xCD3, SEQ ID NO:979xCD3, SEQ ID NO:709xCD3, SEQ ID NO:339xCD3, SEQ ID NO:739xCD3 or SEQ ID NO:199xCD3, wherein the EC50 is measured in a FACS based cytotoxicity assay with unstimulated human PBMCs as effector cells and BCMA transfected CHO cells as target cells.

10. The binding molecule according to any one of the preceding claims, wherein said second binding domain is capable of binding to human CD3 and to macaque CD3.

11. The binding molecule according to any one of the preceding claims, wherein said binding domains are derived from an antibody.

12. The binding molecule according to any one of the preceding claims, wherein the first and/or the second binding domain is an antibody.

13. The binding molecule of claim 11 or 12, wherein said antibody includes monoclonal, chimeric, single chain, humanized and human antibodies.

14. The binding molecule of any one of claims 11 to 13, wherein said antibody includes Fab fragments, $F(ab')_2$, Fv, scFv fragments, single domain antibodies, nanobodies, diabodies, DART antibodies, single chain diabodies, tandem diabodies, minibodies, Fc DART antibodies, IgG DART antibodies, and multibodies.

15. The binding molecule of any one of claims 11 to 14, wherein said antibody is an affinity matured antibody.

16. The binding molecule according to any one of the preceding claims, wherein said binding to epitope cluster 3 of BCMA is tested by exchange with the respective epitope cluster of a non-human BCMA antigen or by alanine scanning.

17. A nucleic acid sequence encoding a binding molecule as defined in any one of claims 1 to 16.

18. A vector comprising a nucleic acid sequence as defined in claim 17.

19. A host cell transformed or transfected with the nucleic acid sequence as defined in claim 17 or with the vector as defined in claim 18.

20. A process for the production of a binding molecule according to any one of claims 1 to 16, said process comprising culturing a host cell as defined in claim 19 under conditions allowing the expression of the binding molecule as defined in any one of claims 1 to 16 and recovering the produced binding molecule from the culture.

21. A pharmaceutical composition comprising a binding molecule according to any one of claims 1 to 16.

22. The binding molecule according to any one of claims 1 to 16, for use in the treatment or amelioration of a disease selected from the group consisting of plasma cell disorders, other B cell disorders that correlate with BCMA overexpression, and autoimmune diseases that correlate with BCMA overexpression.

23. Use of the binding molecule according to any one of claims 1 to 16 or of the pharmaceutical composition according to claim 21, in the preparation of a medicament for the treatment or amelioration of a disease selected from the group consisting of plasma cell disorders, other B cell disorders that correlate with BCMA overexpression and autoimmune diseases that correlate with BCMA overexpression.

24. The binding molecule for use according to claim 22, or use of the binding molecule according to claim 23, wherein the plasma cell disorder is selected from the group consisting of multiple myeloma, plasmacytoma, plasma cell leukemia, macroglobulinemia, amyloidosis, Waldenstrom's macroglobulinemia , solitary bone plasmacytoma, extramedullary plasmacytoma, osteosclerotic myeloma, heavy chain diseases, monoclonal gammopathy of undetermined significance, and smoldering multiple myeloma.

25. A kit comprising a binding molecule as defined in any one of claims 1 to 16, a nucleic acid molecule as defined in claim 17, a vector as defined in claim 18, and/or a host cell as defined in claim 19.