(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
22 January 2009 (22.01.2009)

PCT

(10) International Publication Number
WO 2009/012256 A1

(51) International Patent Classification:
C07K 16/28 (2006.01) *A61K 47/48* (2006.01)
A61K 39/395 (2006.01) *A61P 35/02* (2006.01)
C12N 15/13 (2006.01)

(21) International Application Number:
PCT/US2008/070061

(22) International Filing Date: 15 July 2008 (15.07.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/950,088 16 July 2007 (16.07.2007) US

(71) Applicant *(for all designated States except US)*: **GENENTECH, INC.** [US/US]; 1 DNA Way, South San Francisco, California 94080 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **CHEN, Yvonne** [US/US]; 222 8th Avenue #320, San Mateo, California 94401 (US). **DENNIS, Mark** [US/US]; 120 Plymouth Avenue, San Carlos, California 94070 (US). **ELKINS, Kristi** [US/US]; 145 Bonview Street #A, San Francisco, California 94110 (US). **JUNUTULA, Jagath Reddy** [IN/US]; 34391 Tupelo Street, Fremont, California 94555 (US). **POLSON, Andrew** [US/US]; 281 Berkeley Way, San Francisco, California 94115 (US). **ZHENG, Bing** [CN/US]; 156 Montelena Court, Mountain View, California 94040 (US).

(74) Agents: **Ginger R, Dreger** et al.; Goodwin|Procter LLP, 135 Commonwealth Drive, Menlo Park CA 94025 (US).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: HUMANIZED ANTI-CD79B ANTIBODIES AND IMMUNOCONJUGATES AND METHODS OF USE

DNA225786

MARLALSPVPSHWMVALLLLLSAEPVPAARSEDRYRNPKGSACSRIWQSPRFIARKRGFT
VKMHCYMNSASGNVSWLWKQEMDENPQQLKLEKGRMEESQNESLATLTIQGIRFEDNGIY
FCQQKCNNTSEVYQGCGTELRVMGFSTLAQLKQRNTLKDGIIMIQTLLIILFIIVPIFLL
LDKDDSKAGMEEDHTYEGLDIDQTATYEDIVTLRTGEVKWSVGEHPGQE

Signal sequence.
amino acids 1-28.

Transmembrane domain.
amino acids 5-25, 159-179.

Immunoglobulin domain.
amino acids 58-124.

Immunoreceptor tyrosine-based activation motif.
amino acids 193-213.

N-glycosylation site.
amino acids 73-76, 101-104, 127-130, 128-131.

Protein kinase C phosphorylation site.
amino acids 49-51, 60-62, 156-158, 212-214.

Casein kinase II phosphorylation site.
amino acids 99-102, 156-159, 206-209, 221-224.

Tyrosine kinase phosphorylation site.
amino acids 113-120.

N-myristoylation site.
amino acids 40-45, 118-123.

FIG. 2

(57) Abstract: The present invention is directed to humanized and conjugated antibodies against CD79b useful for the treatment of hematopoietic tumor in mammals and to methods of using those antibodies for the same.

WO 2009/012256 A1

Published:

— *with international search report*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

— *with sequence listing part of description published separately in electronic form and available upon request from the International Bureau*