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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
3 February 2011 (03.02.2011)

PCT

(10) International Publication Number
WO 2011/014438 A1

(51) International Patent Classification:
C07K 16/28 (2006.01) *A61P 37/06* (2006.01)
A61K 39/395 (2006.01)

(21) International Application Number:
PCT/US2010/043182

(22) International Filing Date:
26 July 2010 (26.07.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/230,332 31 July 2009 (31.07.2009) US
61/257,612 3 November 2009 (03.11.2009) US

(71) Applicants *(for all designated States except US)*: **N.V. ORGANON** [NL/NL]; Kloosterstraat 6, NL-5349 AB Oss (NL). **MEDAREX, INC.** [US/US]; Rt. 206 & Province Line Road, Princeton, NJ 08543-4000 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **MATARAZA, Jennifer, Marie** [US/US]; 320 Bent Street, Cambridge, Massachusetts 02141 (US). **VAN ELSAS, Andrea** [NL/NL]; P.O. Box 20, NL-5340 BH Oss (NL). **KORMAN, Alan, J.** [US/US]; 521 Cottonwood Drive, Milpitas, California 95035 (US). **HALK, Edward, L.** [US/US]; 521 Cottonwood Drive, Milpitas, California 95035 (US). **THUDIUM, Kent, B.** [US/US]; 521 Cottonwood Drive, Milpitas, California 95035 (US). **SELBY, Mark** [US/US]; 521 Cottonwood Drive, Milpitas, California 95035 (US). **SPROUL, Timothy, W.** [US/US]; 521 Cottonwood Drive, Milpitas, California 95035 (US). **LEBLANC, Heidi, N.** [CA/US]; 521 Cottonwood Drive, Milpitas, California 95035 (US).

(74) Agent: **KLANN, Amy, G.**; Schering-Plough Corporation, 2000 Galloping Hill Road, Patent Dept. K-6-1 1990, Kenilworth, New Jersey 07033-0530 (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, CL, 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, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report (Art. 21(3))*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

— *with sequence listing part of description (Rule 5.2(a))*

WO 2011/014438 A1

(54) Title: FULLY HUMAN ANTIBODIES TO BTLA

(57) Abstract: The present invention relates to binding compounds specific for BTLA and uses thereof. More specifically, the invention relates to fully human antibodies that recognize human BTLA and modulate its activity in cancer, inflammatory, and autoimmune disorders.