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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
7 April 2011 (07.04.2011)

PCT

(10) International Publication Number
WO 2011/041518 A1

(51) International Patent Classification:
C12P 21/08 (2006.01) *G01N 33/53* (2006.01)
A61K 35/14 (2006.01)

(21) International Application Number:
PCT/US2010/050873

(22) International Filing Date:
30 September 2010 (30.09.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/248,014 2 October 2009 (02.10.2009) US

(71) Applicant *(for all designated States except US)*: **THE REGENTS OF THE UNIVERSITY OF CALIFORNIA** [US/US]; 1111 Franklin Street, 8th Floor, Oakland, CA 94607-5200 (US).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **AKASSOGLOU, Katerina** [US/US]; 755 Tennessee Street, San Francisco, CA 94107 (US).

(74) Agent: **BUCKLEY, Kevin, W.**; RatnerPrestia, P.O. Box 980, Valley Forge, PA 19482 (US).

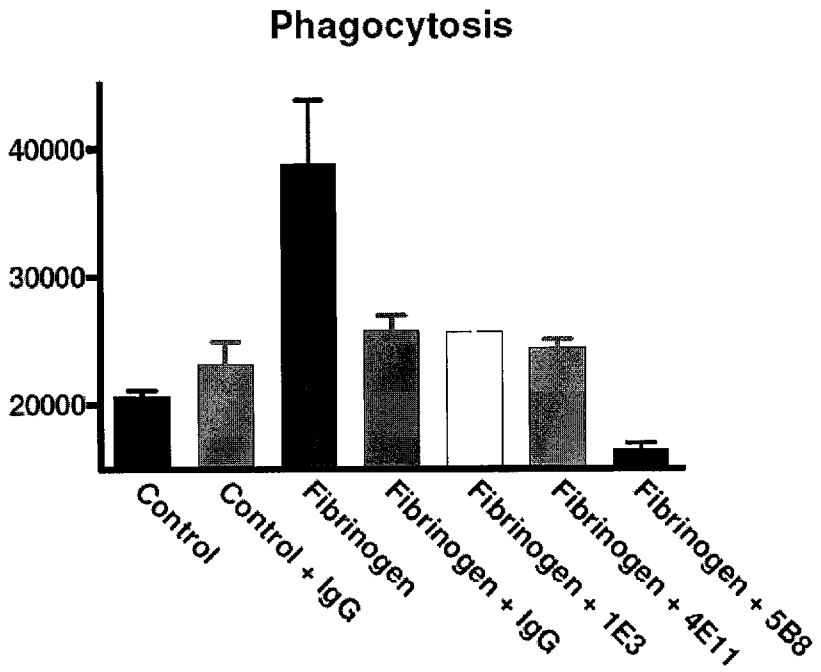
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, 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).

[Continued on next page]

(54) Title: MONOCLONAL ANTIBODIES

FIG. 3



(57) Abstract: The present invention provides an isolated antibody that binds a fibrin or fibrinogen YC domain. In various aspects, the antibody inhibits microglial adhesion to the fibrin or fibrinogen yC domain, inhibits Mac-1 binding to the fibrin or fibrinogen yC domain, and/or suppresses clinical symptoms of Experimental Autoimmune Encephalomyelitis (EAE). Various methods of using the antibodies, pharmaceutical compositions, kits, vectors, cells comprising the vectors, and antibody generating methods are provided.

WO 2011/041518 A1

Published:

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

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