

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
24 December 2008 (24.12.2008)

PCT

(10) International Publication Number
WO 2008/156621 A1

(51) International Patent Classification:
C07K 16/18 (2006.01) *A61P 25/28* (2006.01)
A61K 39/395 (2006.01) *C12N 5/20* (2006.01)

(74) Agents: PEET, Richard, C. et al.; Foley & Lardner LLP,
3000 K Street N.W., Suite 500, Washington, DC 20007
(US).

(21) International Application Number:
PCT/US2008/007317

(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, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(22) International Filing Date: 12 June 2008 (12.06.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/943,543 12 June 2007 (12.06.2007) US
60/943,541 12 June 2007 (12.06.2007) US
60/943,790 13 June 2007 (13.06.2007) US

(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).

(71) Applicants (*for all designated States except US*): AC IMMUNE S.A. [CH/CH]; PSE Building B-EPFL, CH-1015 Lausanne (CH). GENENTECH, INC. [US/US]; 1 DNA Way, South San Francisco, CA 94080-4990 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): PFEIFER, Andrea [DE/SE]; Rte de Fenil 16A, CH-1806 St-Légier (CH). PIHLGREN, Maria [SE/SE]; Rue du Centre 42A, CH-1025 St. Sulpice (CH). MUHS, Andreas [DE/SE]; Ave. des Cerisiers 39b, CH-1009 Pully (CH). WATTS, Ryan [US/US]; 524 Yale Drive, San Mateo, CA 94402 (US).

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

(54) Title: MONOCLONAL ANTI BETA AMYLOID ANTIBODY

(57) Abstract: The present application is related to methods and compositions for the therapeutic and diagnostic use in the treatment of diseases and disorders which are caused by or associated with amyloid or amyloid-like proteins including amyloidosis, a group of disorders and abnormalities associated with amyloid protein such as Alzheimer's disease. The present application provides novel methods and compositions comprising highly specific and highly effective antibodies having the ability to specifically recognize and bind to specific epitopes from a range of β -amyloid proteins. The antibodies enabled by the teaching of the present application are particularly useful for the treatment of diseases and disorders which are caused by or associated with amyloid or amyloid-like proteins including amyloidosis, a group of diseases and disorders associated with amyloid plaque formation including secondary amyloidosis and age-related amyloidosis including, but not limited to, neurological disorders such as Alzheimer's Disease (AD).



WO 2008/156621 A1