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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
5 October 2006 (05.10.2006)

PCT

(10) International Publication Number
WO 2006/103100 A3

(51) International Patent Classification:
C07K 16/28 (2006.01)

(21) International Application Number:
PCT/EP2006/002974

(22) International Filing Date: 31 March 2006 (31.03.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
05007138.0 1 April 2005 (01.04.2005) EP

(71) Applicant *(for all designated States except US)*: **F. HOFFMANN-LA ROCHE AG** [CH/CH]; Grenzacherstrasse 124, CH-4070 Basel (CH).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **BRANDT, Michael** [DE/DE]; Faltergatter 29, 82393 Iffeldorf (DE). **SANKURATRI, Suryanarayana** [US/US]; 1097 Avondale Street, San Jose, CA 95129 (US). **SCHUMACHER, Ralf** [DE/DE]; Hochfeldstrasse 78, 82377 Penzberg (DE). **SEEBER, Stefan** [DE/DE]; Breunetsrieder Weg 22, 82377 Penzberg (DE).

(74) Agents: **SCHREINER, Siegfried** et al.; Roche Diagnostics GmbH, Patent Department (TR-E), Postfach 11 52, 82372 Penzberg (DE).

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

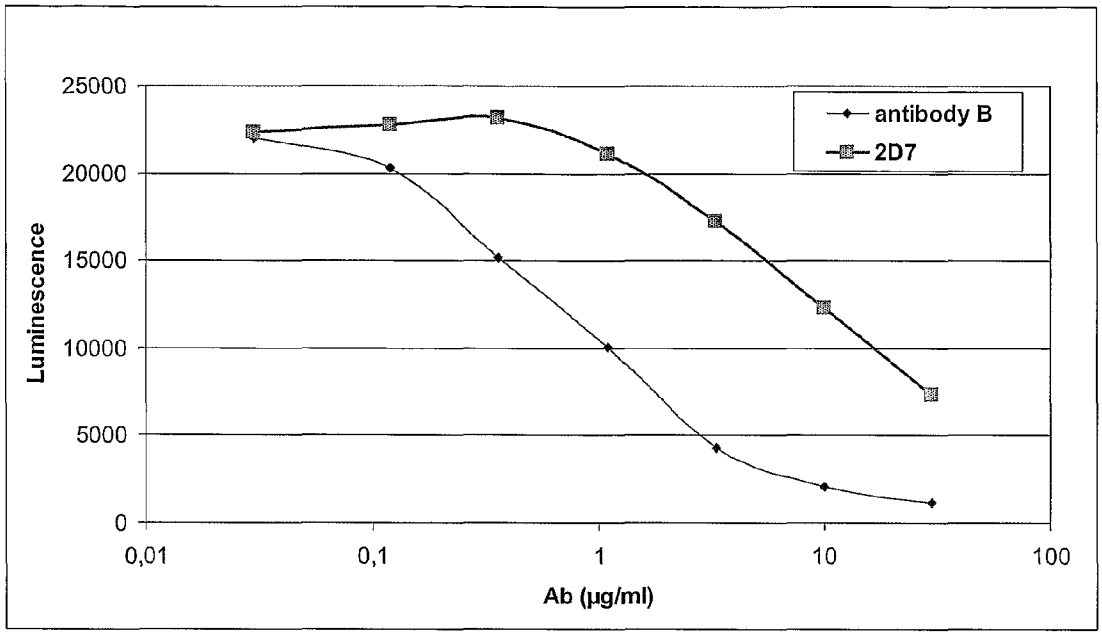
(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:
— *of inventorship (Rule 4.17(iv))*

Published:
— *with international search report*

[Continued on next page]

(54) **Title:** ANTIBODIES AGAINST CCR5 AND USES THEREOF



(57) **Abstract:** An antibody binding to human CCR5 comprising a variable heavy chain and a variable light chain, characterized in that the variable heavy chain comprises CDR sequences CDR1, CDR2 and CDR3 and CDR1 being selected from the group consisting of SEQ ID NOs: 9, 10, 11, 12, CDR2 being selected from the group consisting of SEQ ID NOs: 13, 14, 15, CDR3 being selected from the group consisting of SEQ ID NOs: 16, 17, wherein said CDRs are selected independently of each other, or is a chimeric, humanized variant or a fragment of said antibody, has advantageous properties for the treatment of immunosuppressive diseases.

WO 2006/103100 A3

— *with (an) indication(s) in relation to deposited biological material furnished under Rule 13bis separately from the description*

(88) Date of publication of the international search report:
28 December 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.