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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
22 May 2014 (22.05.2014)

WIPO | PCT

(10) International Publication Number
WO 2014/078268 A3

(51) International Patent Classification:
A61K 39/42 (2006.01) *A61P 31/16* (2006.01)
C07K 16/10 (2006.01)

(21) International Application Number:
PCT/US2013/069567

(22) International Filing Date:
12 November 2013 (12.11.2013)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/725,859 13 November 2012 (13.11.2012) US

(71) Applicant *(for all designated States except AL, AT, BE, BG, CH, CN, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IN, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR)*: **GENENTECH, INC.** [US/US]; 1 DNA Way, South San Francisco, CA 94080 (US).

(71) Applicant *(for AL, AT, BA, BE, BG, CH, CN, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IN, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR only)*: **F. HOFFMANN-LA ROCHE AG** [CH/CH]; Grenzacherstrasse 124, CH-4070 Basel (CH).

(72) Inventors: **XU, Min**; c/o Genentech, Inc., 1 DNA Way, South San Francisco, CA 94080 (US). **BALAZS, Mercedesz**; 1529 Magnolia Blvd. W, Seattle, WA 98199 (US). **CHAI, Ning**; c/o Genentech, Inc., 1 DNA Way, South San Francisco, CA 94080 (US). **CHIANG, Nancy**; c/o Genentech, Inc., 1 DNA Way, South San Francisco, CA 94080 (US). **CHIU, Henry**; c/o Genentech, Inc., 1 DNA Way, South San Francisco, CA 94080 (US). **JIN, Zhaoyu**; 972 De Soto Lane, Foster City, CA 94404 (US). **LIN, Zhonghua**; c/o Genentech, Inc., 1 DNA Way, South San Francisco, CA 94080 (US). **LUPARDUS, Patrick, J.**; c/o Genentech, Inc., 1 DNA Way, South San Francisco, CA 94080 (US). **NAKAMURA, Gerald, R.**; c/o Genentech, Inc., 1 DNA Way, South San Francisco, CA 94080 (US). **PARK, Hyunjoo**; c/o Genentech, Inc., 1 DNA Way, South San Francisco, CA 94080 (US). **SWEM, Lee, R.**; c/o Genentech, Inc., 1 DNA Way, South San Francisco, CA 94080 (US).

(74) Agents: **NESBITT, James E.** et al.; Genentech, Inc., 1 DNA Way, MS-49, South San Francisco, CA 94080 (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, BN, 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, IR, IS, JP, KE, KG, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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.

[Continued on next page]

(54) Title: ANTI-HEMAGGLUTININ ANTIBODIES AND METHODS OF USE

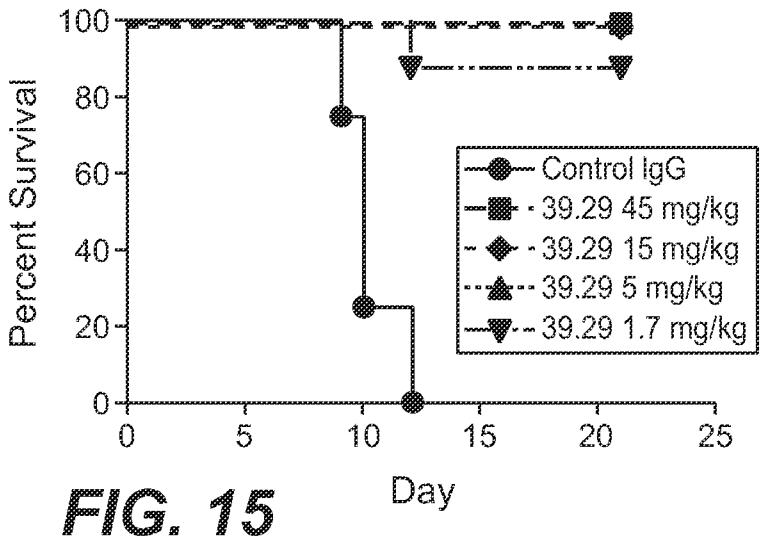


FIG. 15

(57) Abstract: The present invention provides anti-hemagglutinin antibodies, compositions comprising anti- hemagglutinin antibodies, and methods of using the same.

WO 2014/078268 A3

(84) **Designated States** *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, 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, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, 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))*

(88) **Date of publication of the international search report**:
27 November 2014