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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
3 January 2014 (03.01.2014)

WIPO | PCT

(10) International Publication Number
WO 2014/004427 A3

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

(21) International Application Number:
PCT/US2013/047476

(22) International Filing Date:
25 June 2013 (25.06.2013)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/663,984 25 June 2012 (25.06.2012) US
61/821,000 8 May 2013 (08.05.2013) US

(71) Applicant: **REGENERON PHARMACEUTICALS, INC.** [US/US]; 777 Old Saw Mill River Road, Tarrytown, NY 10591 (US).

(72) Inventors: **DALY, Christopher**; 315 East 72nd Street, Apt. 7h, New York, NY 10021 (US). **THURSTON, Gavin**; 20 Fuller Road, Briarcliff Manor, NY 10510 (US). **PADADOPOULOS, Nicholas, J.**; 59 Heritage Lane, Lagrangeville, NY 12540 (US).

(74) Agent: **SWANSON, Barry, J.**; Swanson & Bratschun, L.L.C., 8210 SouthPark Terrace, Littleton, CO 80120 (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, 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, 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, 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))*

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

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

WO 2014/004427 A3

(54) Title: ANTI-EGFR ANTIBODIES AND USES THEREOF

(57) Abstract: The present invention provides antibodies that bind to EGFR and methods of using same. According to certain embodiments of the invention, the antibodies are fully human antibodies that bind to human EGFR with high affinity. In certain embodiments, the antibodies of the present invention are capable of inhibiting the growth of tumor cells expressing high levels of EGFR and/or inducing antibody-dependent cell-mediated cytotoxicity (ADCC) of such cells. The antibodies of the invention are useful for the treatment of various cancers as well as other EGFR-related disorders.