



(51) International Patent Classification:

C07K 16/28 (2006.01) A61P 23/00 (2006.01)
A61P 1/00 (2006.01)

(21) International Application Number:

PCT/US2013/069673

(22) International Filing Date:

12 November 2013 (12.11.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/725,704 13 November 2012 (13.11.2012) US
61/825,112 20 May 2013 (20.05.2013) US

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

(72) Inventors: **MACDONALD, Lynn**; 16 Gedney Way, White Plains, NY 10605 (US). **LACROIX-FRALISH, Michael, L.**; 776 Swed Circle, Yorktown Heights, NY 10598 (US).

(74) Agent: **COTTINGHAM, Frank**; Regeneron Pharmaceuticals, Inc., 777 Old Saw Mill River Road, Tarrytown, NY 10591 (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.

(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))
- with sequence listing part of description (Rule 5.2(a))

(54) Title: ANTI-PROKINETICIN RECEPTOR (PROKR) ANTIBODIES AND USES THEREOF

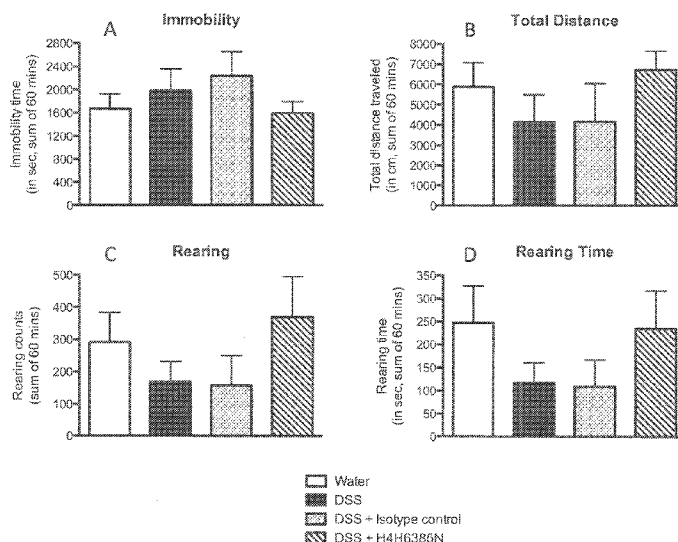


FIGURE 1

(57) Abstract: The present invention provides antibodies that bind to prokineticin receptors (PROKRs) and methods of using same. According to certain embodiments of the invention, the antibodies are fully human antibodies that bind to human PROKR1 and/or PROKR2. The present invention includes antibodies that bind cell surface-expressed PROKR1 and/or PROKR2. In certain embodiments, the antibodies of the present invention are capable of blocking prokineticin (PK)- mediated activation of one or more PROKR. The antibodies of the invention are useful for the treatment of various diseases and disorders mediated by prokineticin signaling.