



- (51) **International Patent Classification:**
A61K 39/395 (2006.01) *C07K 16/46* (2006.01)
- (21) **International Application Number:**
PCT/US2015/026904
- (22) **International Filing Date:**
21 April 2015 (21.04.2015)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
61/982,294 21 April 2014 (21.04.2014) US
- (71) **Applicant:** **STEMCENTRX, INC.** [US/US]; 450 East Jamie Court, South San Francisco, California 94080 (US).
- (72) **Inventors:** **BOONTANRART, Mandy**; 984 Hayes St., San Francisco, California 94117 (US). **ROKKAM, Deepti**; 1221 Sargent Drive, Sunnyvale, California 94087 (US). **LIU, David**; Apt 1, 300 Santa Rosa Avenue, San Francisco, California 94080 (US). **DYLLA, Scott J.**; 25 Danford Court, Emerald Hills, California 94062 (US). **AUJAY, Monette**; 840 Potrero Avenue, San Francisco, California 94110 (US).
- (74) **Agents:** **MEIGS, Julie Broadus** et al.; Womble Carlyle Sandridge & Rice, LLP, P.O. Box 7037, Atlanta, Georgia 30357-0037 (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, 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, ST, 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).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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:

23 December 2015

(54) **Title:** NOVEL ANTII-RNF43 ANTIBODIES AND METHODS OF USE

(57) **Abstract:** The invention discloses novel anti-RNF43 antibodies and derivatives thereof, including antibody drug conjugates, and methods of using such anti-RNF43 antibodies and antibody drug conjugates to diagnose and treat cancer.

