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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
19 August 2010 (19.08.2010)

PCT

(10) International Publication Number
WO 2010/093055 A1

(51) International Patent Classification:
A61P 35/00 (2006.01) *G01N 33/50* (2006.01)
A61K 39/00 (2006.01) *C12N 5/10* (2006.01)
C07K 14/16 (2006.01) *C07K 16/28* (2006.01)
C12N 15/86 (2006.01)

(21) International Application Number:
PCT/JP2010/052479

(22) International Filing Date:
10 February 2010 (10.02.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/151,411 10 February 2009 (10.02.2009) US

(71) Applicant *(for all designated States except US)*: **DAIICHI SANKYO COMPANY, LIMITED** [JP/JP]; 3-5-1, Nihonbashi Honcho, Chuo-ku, Tokyo, 1038426 (JP).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **KAWAIDA, Reimi. OHTSUKA, Toshiaki. AGATSUMA, Toshinori. RODLEY, Philip. MILLER, Sandra. SCHUBERT, Ulrike.**

(74) Agents: **ISHIBASHI, Koki** et al.; c/o DAIICHI SANKYO COMPANY, LIMITED, 1-16-13, Kitakasai, Edogawa-ku, Tokyo 1348630 (JP).

(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, 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, KM, 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, PE, PG, PH, PL, PT, RO, RS, RU, 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, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, 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))*

WO 2010/093055 A1

(54) **Title**: ANTI-MST1R ANTIBODIES AND USES THEREOF

(57) **Abstract**: The present disclosure provides recombinant antigen-binding regions and antibodies and functional fragments containing such antigen-binding regions that are specific for MST1R, which plays an integral role in various disorders or conditions, such as cancer. These antibodies, accordingly, can be used to treat these and other disorders and conditions. Antibodies of the disclosure also can be used in the diagnostics field, as well as for further investigating the role of MST1R in the progression of disorders associated with tumors. The disclosure also provides nucleic acid sequences encoding the foregoing antibodies, vectors containing the same, pharmaceutical compositions and kits with instructions for use.