

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
22 July 2021 (22.07.2021)



(10) International Publication Number
WO 2021/143858 A1

(51) International Patent Classification:

C07K 16/28 (2006.01) *G01N 15/10* (2006.01)
C12N 5/20 (2006.01) *G01N 33/577* (2006.01)
C12R 1/91 (2006.01)

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))

(21) International Application Number:

PCT/CN2021/072191

(22) International Filing Date:

15 January 2021 (15.01.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

PCT/CN2020/072733

17 January 2020 (17.01.2020) CN

(71) Applicant: **BEIGENE, LTD.**; C/o Mourant Governance
Services (Cayman) Limited, 94 Solaris Avenue, Camana
Bay, Grand Cayman, KY1-1108 (KY).

(72) Inventor; and

(71) Applicant (for SC only): **XUE, Liu** [CN/CN]; No.30
Science Park Road, Zhongguancun Life Science Park,
Changping, Beijing 102206 (CN).

(72) Inventor: **ZHANG, Tong**; No.30 Science Park Road,
Zhongguancun Life Science Park, Changping, Beijing
102206 (CN).

(74) Agent: **WU, FENG & ZHANG**; 3 FL, Building 2, Yard 3,
FengXiuZhongLu Road, Haidian District, Beijing 100094
(CN).

(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, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN,
KP, KR, KW, 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, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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,

(54) Title: ANTI-NKp30 ANTIBODIES AND METHODS OF USE

(57) Abstract: Antibodies and antigen-binding fragments thereof that bind to human NKp30, multispecific antibodies that recognize NKp30 as one antigen and at least one other antigen, a pharmaceutical composition comprising NKp30 antibodies, and use of the antibody, multispecific antibody or the composition for treating a disease, such as cancer.

WO 2021/143858 A1