

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

(19) World Intellectual Property  
Organization  
International Bureau

(43) International Publication Date  
17 April 2025 (17.04.2025)



(10) International Publication Number  
**WO 2025/080685 A3**

(51) International Patent Classification:

C07K 16/28 (2006.01) C07K 19/00 (2006.01)  
A61K 39/395 (2006.01) C07K 14/52 (2006.01)  
A61P 35/00 (2006.01)

(21) International Application Number:

PCT/US2024/050538

(22) International Filing Date:

09 October 2024 (09.10.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/589,149 10 October 2023 (10.10.2023) US

(71) Applicant: MARENGO THERAPEUTICS, INC.

[US/US]; 840 Memorial Drive, 4th Floor, Cambridge,  
Massachusetts 02139 (US).

(72) Inventors: KATRAGADDA, Madan; c/o Marengo Ther-

apeutics, Inc., 840 Memorial Drive, 4th Floor, Cambridge,  
Massachusetts 02139 (US). BAYLIFFE, Andrew; c/o  
Marengo Therapeutics, Inc., 840 Memorial Drive, 4th Floor,  
Cambridge, Massachusetts 02139 (US).

(74) Agent: XIANG, Ting Wei et al.; Wilson Sonsini Goodrich

& Rosati, 650 Page Mill Road, Palo Alto, California 94304  
(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, CV, CZ, DE, DJ, DK, DM,  
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,  
HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG,

KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY,  
MA, MD, MG, MK, MN, MU, 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, CV,  
GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, 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))
- of inventorship (Rule 4.17(iv))

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))

(88) Date of publication of the international search report:

24 July 2025 (24.07.2025)

(54) Title: ANTIBODY MOLECULES THAT BIND TO NKP30 AND USES THEREOF

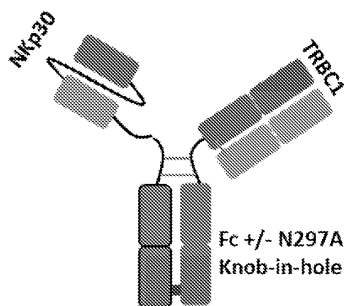


FIG. 1A

(57) Abstract: Provides herein are compositions comprising an agent that comprises an antigen binding domain that binds to Nkp30, and methods of treating conditions or diseases in a subject and methods of expanding and/or activation NK cells using the same.

WO 2025/080685 A3