

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
12 June 2025 (12.06.2025)



(10) International Publication Number
WO 2025/120583 A2

(51) International Patent Classification:

C07K 16/28 (2006.01) A61P 35/00 (2006.01)
A61K 39/395 (2006.01) A61P 35/02 (2006.01)

TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS,
ZA, ZM, ZW.

(21) International Application Number:

PCT/IB2024/062299

(22) International Filing Date:

06 December 2024 (06.12.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/608,030 08 December 2023 (08.12.2023) US

(71) Applicant: JANSSEN BIOTECH, INC. [US/US];
800/850 Ridgeview Drive, Horsham, Pennsylvania 19044
(US).

(72) Inventors: ELASHKAR, Sara Mohamed A; c/o Janssen
Pharmaceutica NV, Turnhoutseweg 30, 2340 Beerse (BE).
KALLAL, Lorena A; c/o Janssen Research & Develop-
ment, LLC, 920 US Route 202, PO Box 300, Raritan, New
Jersey 08869 (US). JACOBS, Steven A.; c/o Janssen Re-
search & Development, LLC, 920 US Route 202, PO Box
300, Raritan, New Jersey 08869 (US). PHILIPPAR, U-
rike; c/o Janssen Pharmaceutica NV, Turnhoutseweg 30,
2340 Beerse (BE). DOONAN, Patrick John; c/o Janssen
Research & Development, LLC, 920 US Route 202, PO
Box 300, Raritan, New Jersey 08869 (US). PARREN,
Paul Willem Henri Ida; c/o Lava Therapeutics N.V., Yale-
laan 62, 3584 CM Utrecht (NL). MERAT, Sabrina Ju-
lia Louisa; c/o Lava Therapeutics N.V., Yalelaan 62, 3584
CM Utrecht (NL). ROOVERS, Robertus Cornelis; c/o
Lava Therapeutics N.V., Yalelaan 62, 3584 CM Utrecht
(NL). VAN DER VLIET, Johannes Jelle; c/o Lava Ther-
apeutics N.V., Yalelaan 62, Utrecht, 3584CM (NL). VAN
HELDEN, Paula Maria Wilhelmina; c/o Lava Therapeu-
tics N.V., Yalelaan 62, 3584 CM Utrecht (NL).

(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))

Published:

— without international search report and to be republished
upon receipt of that report (Rule 48.2(g))
— with sequence listing part of description (Rule 5.2(a))
— in black and white; the international application as filed
contained color or greyscale and is available for download
from PATENTSCOPE

(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,

(54) Title: CD33 ANTIBODIES, CD33/V62 MULTISPECIFIC ANTIBODIES AND USES THEREOF

(57) Abstract: CD33 antibodies, and antigen-binding fragments thereof, and CD33/V62 multispecific antibodies, or antigen-binding fragments thereof, are described. Also described are polynucleotides encoding the antibodies, compositions comprising the antibodies, methods of producing the antibodies, and methods of using the antibodies for treating or preventing diseases, such as hematological cancers.



WO 2025/120583 A2