

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
10 March 2022 (10.03.2022)



(10) International Publication Number
WO 2022/049165 A1

(51) International Patent Classification:

A61K 39/395 (2006.01) **C07K 16/46** (2006.01)
A61P 27/02 (2006.01) **A61K 39/00** (2006.01)
C07K 16/22 (2006.01)

(21) International Application Number:

PCT/EP2021/074195

(22) International Filing Date:

02 September 2021 (02.09.2021)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

20194610.0 04 September 2020 (04.09.2020) EP
20209591.5 24 November 2020 (24.11.2020) EP

(71) Applicant (for all designated States except US): **F. HOFFMANN-LA ROCHE AG** [CH/CH]; Grenzacherstrasse 124, 4070 Basel (CH).

(71) Applicant (for US only): **HOFFMANN-LA ROCHE INC.** [US/US]; Great Notch, 150 Clove Road 8th Floor, Suite 8 - Legal Department, Little Falls, New Jersey 07424 (US).

(72) Inventors: **BECKMANN, Roland**; c/o Roche Diagnostics GmbH Nonnenwald 2, 82377 Penzberg (DE). **FENN, Sebastian**; c/o Roche Diagnostics GmbH Nonnenwald 2, 82377 Penzberg DEUTSCHLAND (DE). **HARTMANN, Guido**; c/o F. Hoffmann-La Roche AG Grenzacherstrasse 124, 4070 Basel (CH). **IMHOF-JUNG, Sabine**; c/o Roche Diagnostics GmbH Nonnenwald 2, 82377 Penzberg (DE). **JENSEN, Kristian, Hobolt**; c/o Roche Diagnostics GmbH Nonnenwald 2, 82377 Penzberg (DE). **MOELLEKEN, Joerg**; c/o Roche Diagnostics GmbH Nonnenwald 2, 82377 Penzberg (DE). **MOLHOJ, Michael**; c/o Roche Diagnostics GmbH Nonnenwald 2, 82377 Penzberg (DE). **SCHANTZ, Christian**; c/o Roche Diagnostics GmbH Nonnenwald 2, 82377 Penzberg (DE). **SPECK, Janina**; c/o Roche Diagnostics GmbH Nonnenwald 2, 82377 Penzberg (DE). **ULLMER, Christoph**; c/o F. Hoffmann-La Roche AG Grenzacherstrasse 124, 4070 Basel (CH). **WEISER, Barbara**; c/o F. Hoffmann-La Roche AG, Grenzacherstrasse 124, 4070 Basel (CH).

(74) Agent: **MERTES, Maria** et al.; Nonnenwald 2, 82377 Penzberg (DE).

(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, 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))



WO 2022/049165 A1

(54) Title: ANTIBODY THAT BINDS TO VEGF-A AND ANG2 AND METHODS OF USE

(57) Abstract: The present invention relates to anti-VEGF-A/anti-ANG2 antibodies, e.g. in the form of a bispecific Fab fragment, and methods of using the same.