

(12) International Application Status Report

Received at International Bureau: 14 March 2024 (14.03.2024)

Information valid as of: 08 July 2024 (08.07.2024)

Report generated on: 03 September 2025 (03.09.2025)

(10) Publication number:

WO2024/186232

(43) Publication date:

12 September 2024 (12.09.2024)

(26) Publication language:

English (EN)

(21) Application Number:

PCT/RU2024/050045

(22) Filing Date:

27 February 2024 (27.02.2024)

(25) Filing language:

English (EN)

(31) Priority number(s):

2023105130 (RU)

(31) Priority date(s):

06 March 2023 (06.03.2023)

(31) Priority status:

Priority document received (in compliance with PCT Rule 17.1)

(51) International Patent Classification:

C07K 16/46 (2006.01); **C07K 19/00** (2006.01); **C07K 1/00** (2006.01); **C12N 15/13** (2006.01); **C12N 15/62** (2006.01); **C12N 15/79** (2006.01)

(71) Applicant(s):

JOINT STOCK COMPANY "BIOCAD" [RU/RU]; vn. ter. g. poselok Strelna, ul. Svyazi, d. 38, str. 1, pomeshch. 89 Saint Petersburg, 198515 (RU) (*for all designated states*)

(72) Inventor(s):

POLIAKOV, Dmitrii Nikolaevich; Petrodvorcovyi r-n, g. Petergof, ul. Parkovaya, d.14, korp.5, str. 1, kv. 104 Saint-Petersburg, 198510 (RU)

LEGOTSKII, Sergei Aleksandrovich; ul. Tatyany Makarovoj, d. 6, kv.140 Moscow, 111675 (RU)

DANILOV, Maksim Andreevich; g. Petergof, bulvar Razvedchika, d.2, korp.2, kv.77 Saint-Petersburg, 198516 (RU)

BARANOVSKAIA, Marianna Dmitrievna; g. Petergof, ul. Parkovaya, d.14, korp.5, str.1, kv.103 Saint-Petersburg, 198510 (RU)

IVANOVA, Kseniia Vitalievna; ul. Karpinskogo, d. 21, kv.24. Saint-Petersburg, 195273 (RU)

NAZARENKO, Olga Viktorovna; ul. Zheleznodorozhnaya, d. 26, kv. 59 Leningradskaya obl., Vsevolozhskij r-n, gp Kuzmolovskij, 188663 (RU)

IAKOVLEV, Pavel Andreevich; ul. Bolshaya Podiacheskaya, d. 29, kv. 16 Saint Petersburg, 190068 (RU)

MOROZOV, Dmitry Valentinovich; Admiraltejskij r-on, ul. Pochtamskaya, d. 20, kv. 3 Saint-Petersburg, 190000 (RU)

(74) Agent(s):

MELCHAEVA, Olga Anatolevna; vn. ter. g. poselok Strelna, ul. Svyazi, d. 38, str. 1, pomeshch. 89 Saint Petersburg, 198515 (RU)

(54) Title (EN): ANTIBODY-LIKE MOLECULE COMPRISING HETERODIMER OF HUMAN CD1B (CLUSTER OF DIFFERENTIATION 1) PROTEIN

(54) Title (FR): MOLÉCULE DE TYPE ANTICORPS COMPRENANT UN HÉTÉRODIMÈRE DE PROTÉINE CD1B HUMAINE (GROUPE DE DIFFÉRENCIATION 1)

(57) Abstract:

(EN): The present invention relates to the field of biotechnology, specifically to antibody-like molecules that comprise a heterodimer of membrane-proximal domains of human CD1b (cluster of differentiation 1) protein, as well as to a process for producing said antibody-like molecules. The invention further relates to a nucleic acid encoding said antibody-like molecule, an expression vector, a host cell for producing said antibody-like molecule and to a method for producing said cell.

(FR): La présente invention relève du domaine de la biotechnologie, et concerne en particulier des molécules de type anticorps qui comprennent un hétérodimère de domaines membranaires proximaux de la protéine CD1b humaine (groupe de différenciation 1), ainsi qu'un procédé de production desdites molécules de type anticorps. L'invention concerne en outre un acide nucléique codant pour ladite molécule de type anticorps, un vecteur d'expression, une cellule hôte pour produire ladite molécule de type anticorps et un procédé de production de ladite cellule.

International search report:

International Report on Patentability (IPRP) Chapter II of the PCT:

Not available

(81) Designated States:

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

European Patent Office (EPO) : 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

African Intellectual Property Organization (OAPI) : BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG

African Regional Intellectual Property Organization (ARIPO) : BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW

Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, RU, TJ, TM

Declarations:

Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America