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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
22 November 2012 (22.11.2012)

WIPO | PCT

(10) International Publication Number
WO 2012/156455 A1

(51) International Patent Classification:
C07K 16/28 (2006.01) *A61K 47/48* (2006.01)

(21) International Application Number:
PCT/EP2012/059141

(22) International Filing Date:
16 May 2012 (16.05.2012)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11290232.5 17 May 2011 (17.05.2011) EP

(71) Applicant *(for all designated States except US)*: **SANOFI** [FR/FR]; 54, rue La Boétie, F-75008 Paris (FR).

(72) Inventor; and
(75) Inventor/Applicant *(for US only)*: **MORARIU, Rodica** [RO/FR]; Sanofi, Patent Department, 54, rue La Boétie, F-75008 Paris (FR).

(74) Agent: **BOUVET, Philippe**; c/o Sanofi, Patent Department, 54, rue La Boétie, F-75008 Paris (FR).

(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, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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, 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, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

Published:

— *with international search report (Art. 21(3))*

— *with sequence listing part of description (Rule 5.2(a))*

WO 2012/156455 A1

(54) **Title**: USE OF ANTI-CD19 MAYTANSINOID IMMUNOCONJUGATE ANTIBODY FOR THE TREATMENT OF B-CELL MALIGNANCIES SYMPTOMS

(57) **Abstract**: An anti-CD19 maytansinoid immunoconjugate is used for treating B-cell malignancies symptom, in particular Non-Hodgkin's lymphoma.