

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
12 February 2009 (12.02.2009)

PCT

(10) International Publication Number
WO 2009/019317 A1

(51) International Patent Classification:

A61K 35/18 (2006.01) A61P 35/00 (2006.01)
A61K 39/00 (2006.01) A61P 37/04 (2006.01)
A61K 39/39 (2006.01)

(74) Agents: COLOMBET, Alain et al.; 62 rue de Bonnel,
F-69448 Lyon Cedex 03 (FR).

(21) International Application Number:

PCT/EP2008/060492

(22) International Filing Date: 8 August 2008 (08.08.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

0705767 8 August 2007 (08.08.2007) FR
60/954,917 9 August 2007 (09.08.2007) 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, BR, BW, BY, BZ, CA, CH, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (for all designated States except US): ERY-TECH PHARMA [FR/FR]; 60 avenue Rockefeller, F-69008 Lyon (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): GODFRIN, Yann [FR/FR]; 23 rue Henri Gorjus, F-69004 Lyon (FR).
MARCHAND, Alice [FR/FR]; 8 quai Claude Bernard, F-69007 Lyon (FR).

Published:

— with international search report

(54) Title: COMPOSITION AND THERAPEUTIC ANTI-TUMOUR VACCINE

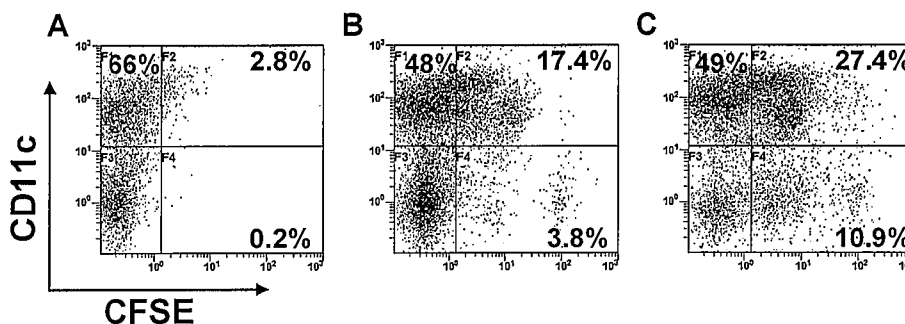


FIGURE 1

(57) Abstract: The invention relates to a composition which induces, in a host, a cytotoxic cell response directed against cells expressing an antigen, in particular tumour cells, and which comprises red blood cells containing said antigen. These red blood cells may be in the form of an immune complex with an immunoglobulin, in particular IgG, which recognizes an epitope at the surface of the red blood cells, and/or be heat-treated or chemically treated so as to promote phagocytosis of said red blood cells by dendritic cells. As a variant, the red blood cells may be xenogenic red blood cells. The invention also relates to a therapeutic especially anti-tumour vaccine containing such a composition.

WO 2009/019317 A1