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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
4 September 2008 (04.09.2008)

PCT

(10) International Publication Number
WO 2008/104183 A3

(51) International Patent Classification:
C07K 16/28 (2006.01) *C07K 14/71* (2006.01)
A61K 39/395 (2006.01)

(21) International Application Number:
PCT/DK2008/050047

(22) International Filing Date:
27 February 2008 (27.02.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

PA 2007 00317	1 March 2007 (01.03.2007)	DK
60/904,773	5 March 2007 (05.03.2007)	US
PA 2007 01016	10 July 2007 (10.07.2007)	DK
60/929,727	11 July 2007 (11.07.2007)	US

(71) Applicant *(for all designated States except US)*: **SYMPHOGEN A/S** [DK/DK]; Elektrovej building 375, DK-2800 Kgs. Lyngby (DK).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **PEDERSEN, Mikkel, Wandahl** [DK/DK]; Soengen 62, DK-3450 Alleroed (DK). **STEINAA, Lucilla** [DK/DK]; Stenhavevej 12 B, DK-2970 Hoersholm (DK). **JENSEN, Allan** [DK/DK]; Præstemosevej 1, DK-3480 Fredensborg (DK). **KOEFOED, Klaus** [DK/DK]; Tom Kristensens Vej 42, 7 tv, DK-2300 København S (DK). **MEIJER, Per-Johan** [SE/DK]; Asminderoedgade 15, 3 tv, DK-2200 Koebenhavn N (DK). **CARLSSON, Robert** [SE/SE]; Helsingborgsgatan 11, S-211 54 Malmoe (SE). **PYKE, Charles** [DK/DK]; Rolighedsvej 4, DK-3400 Hilleroed (DK). **NIELSEN, Lars, Soegaard** [DK/DK]; Nivaapark 58, DK-2990 Nivaa (DK).

(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, 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).

Published:
— *with international search report*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
13 November 2008

(54) Title: RECOMBINANT ANTI-EPIDERMAL GROWTH FACTOR RECEPTOR ANTIBODY COMPOSITIONS

(57) Abstract: The invention relates to the field of recombinant antibodies for use in human cancer therapy. More specifically the invention provides compositions or mixtures of antibodies capable of binding human EGFR. Antibody compositions with 3 or more antibodies have shown synergy in reduction of proliferation of representative cancer cell lines. Advantageous results have also been obtained with a composition comprising two different chimeric anti-hEGFR antibodies which show a new mechanism of action based on rapid and efficient receptor internalisation, induction of terminal differentiation and subsequent tumour eradication in an animal model. The antibodies of the invention can be manufactured in one bioreactor as a polyclonal antibody.

WO 2008/104183 A3