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(54) Title: METHODS AND COMPOSITIONS FOR LOCALIZED SECRETION OF ANTI-CTLA-4 ANTIBODIES

(57) Abstract: The present invention provides compositions and methods for effectuating the localized expression of anti-CTLA-4 antibody proximal to a target tissue in a patient.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/07983

A. CLASSIFICATION OF SUBJECT MATTER IPC: C12N 15/63(2006.01),15/86(2006.01);C12N 5/10(2006.01);C07K 16/28(2006.01);A61K 48/00(2006.01) USPC: 435/320.1,455,325,326;530/387.1,388.22;424/130.1;514/44 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 435/320.1, 455, 325, 326; 530/387.1, 388.22; 424/130.1; 514/44 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched None Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y Y Y Y	US 20020039581 (CARRENO et al.) 4 April 2002 (04.04.2002), see entire document. WO 2004/058801 A2 (ELLENHORN et al.) 15 July 2004 (15.07.2004), see entire document, in particular pages 25-27, 32. LEACH, D. R. et al. Enhancement of antitumor immunity by CTLA-4 blockade. Science. 22 March 1996, Vol. 271, 1734-1736, see entire document. US 5,935,821 (CHATTERJEE et al.) 10 August 1999 (10.08.1999), see entire document, especially columns 29-30, 34.	1, 4-10,12,14-15 ----- 2-3,11,16,20,22-23 1-12,14-16,20, 22-23 1-12,14-16,20, 22-23 16, 20, 22-23
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents:		
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	
"P" document published prior to the international filing date but later than the priority date claimed		
Date of the actual completion of the international search 10 July 2008 (10.07.2008)	Date of mailing of the international search report 31 JUL 2008	
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner of Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer <i>Valerie Bell-Harris</i> Anne Marie S. Wehbe Telephone No. (571) 272-1600	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/07983

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claim Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claim Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claim Nos.: 13, 17-19, 21
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
 3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

 4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
- Remark on Protest** The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

PCT/US07/07983

Continuation of B. FIELDS SEARCHED Item 3:

DIALOG-medicine database; BRS/EAST-USPatful, EPO, JPO, Derwint, PG-Pubs
search terms: anti-CTLA4, vector, plasmid, retrovir?, adenovir?, tumor, cancer, scfv