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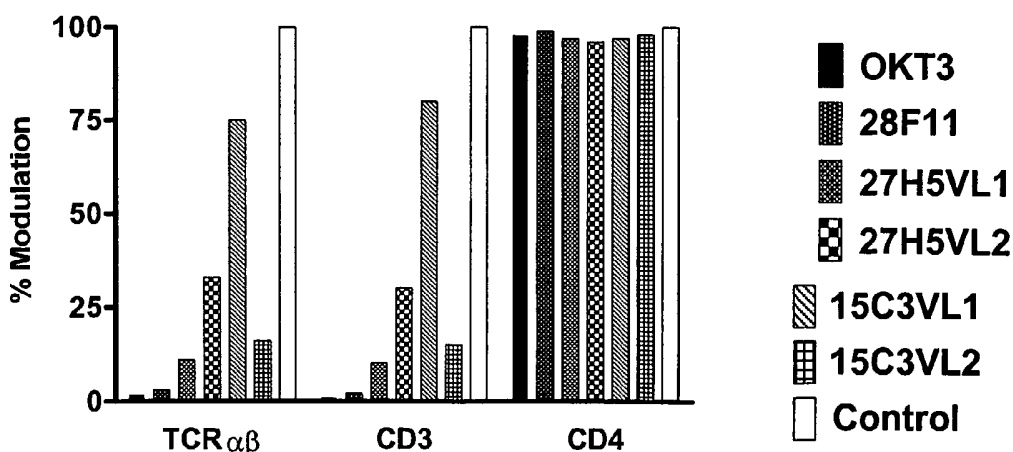
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[Continued on next page]

(54) Title: ANTI-CD3 ANTIBODIES AND METHODS OF USE THEREOF

Antigenic Modulation Assay of CD3 and TCR



(57) Abstract: The present invention is related to antibodies directed to the antigen CD3 and uses of such antibodies. In particular, the present invention provides fully human monoclonal antibodies directed to CD3. Nucleotide sequences encoding, and amino acid sequences comprising, heavy and light chain immunoglobulin molecules, particularly sequences comprising, heavy and light chain immunoglobulin molecules, particularly sequences corresponding to contiguous heavy and light chain sequences spanning the framework regions and/or complementarity determining regions (CDR's), specifically from FR1 through FR4 or CDR1 through CDR3, are provided. Hybridomas or other cell lines expressing such immunoglobulin molecules and monoclonal antibodies are also provided.

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, EMBASE, BIOSIS, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/216551 A1 (DELOVITCH TERRY L) 20 November 2003 (2003-11-20) "Fully human anti-CD3 monoclonal antibodies" abstract page 1, paragraph 7 - paragraph 10 <div style="text-align: center; margin-top: 10px;">----- -/--</div>	1-49

<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C.	<input checked="" type="checkbox"/> See patent family annex.		
<p>* Special categories of cited documents :</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top; padding: 5px;"> <p>*A* document defining the general state of the art which is not considered to be of particular relevance</p> <p>*E* earlier document but published on or after the international filing date</p> <p>*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)</p> <p>*O* document referring to an oral disclosure, use, exhibition or other means</p> <p>*P* document published prior to the international filing date but later than the priority date claimed</p> </td> <td style="width: 50%; vertical-align: top; padding: 5px;"> <p>*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</p> <p>*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</p> <p>*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.</p> <p>*Z* document member of the same patent family</p> </td> </tr> </table>		<p>*A* document defining the general state of the art which is not considered to be of particular relevance</p> <p>*E* earlier document but published on or after the international filing date</p> <p>*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)</p> <p>*O* document referring to an oral disclosure, use, exhibition or other means</p> <p>*P* document published prior to the international filing date but later than the priority date claimed</p>	<p>*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</p> <p>*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</p> <p>*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.</p> <p>*Z* document member of the same patent family</p>
<p>*A* document defining the general state of the art which is not considered to be of particular relevance</p> <p>*E* earlier document but published on or after the international filing date</p> <p>*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)</p> <p>*O* document referring to an oral disclosure, use, exhibition or other means</p> <p>*P* document published prior to the international filing date but later than the priority date claimed</p>	<p>*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</p> <p>*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</p> <p>*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.</p> <p>*Z* document member of the same patent family</p>		
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Niebuhr-Ebel, K		

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International application No
PCT/US2005/019922

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>XU DANLIN ET AL: "In vitro characterization of five humanized OKT3 effector function variant antibodies" CELLULAR IMMUNOLOGY, vol. 200, no. 1, 25 February 2000 (2000-02-25), pages 16-26, XP002376698 ISSN: 0008-8749 abstract page 17, left-hand column, paragraph 3 page 23, left-hand column, line 13 - page 24, left-hand column, paragraph 1 page 25, left-hand column, line 18 - line 36</p>	1-49
A	<p>RENDERS L ET AL: "Engineered CD3 antibodies for immunosuppression" CLINICAL AND EXPERIMENTAL IMMUNOLOGY 01 SEP 2003 UNITED KINGDOM, vol. 133, no. 3, 1 September 2003 (2003-09-01), pages 307-309, XP002376699 ISSN: 0009-9104 page 307, paragraph 2 table 1</p>	
A	<p>GREEN L L ET AL: "ANTIGEN-SPECIFIC HUMAN MONOCLONAL ANTIBODIES FROM MICE ENGINEERED WITH HUMAN IG HEAVY AND LIGHT CHAIN YACS" NATURE GENETICS, NEW YORK, NY, US, vol. 7, no. 1, May 1994 (1994-05), pages 13-21, XP000953045 ISSN: 1061-4036 the whole document</p>	1-49
A	<p>ADAIR J R ET AL: "Humanization of the murine anti-human CD3 monoclonal antibody OKT3." HUMAN ANTIBODIES AND HYBRIDOMAS. 1994, vol. 5, no. 1-2, 1994, pages 41-47, XP009065026 ISSN: 0956-960X the whole document</p>	1-49

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2005/019922

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2003216551	A1	NONE	