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(54) Title: ANTIBODIES THAT BIND α E INTEGRIN

(57) Abstract: Antibodies and antigen-binding fragments of antibodies that bind α E integrin are disclosed. Some of the antibodies and antigen-binding fragments bind an activation induced epitope on integrin α E chain. In some embodiments, the antibodies are human. Nucleic acids and vectors encoding the antibodies or portions thereof, recombinant cells that contain the nucleic acids, and compositions comprising the antibodies or antigen-binding fragments are also disclosed. The invention also provides therapeutic and diagnostic methods that employ the antibodies and antigen-binding fragments.



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INTERNATIONAL SEARCH REPORT

PCT/US03/18234

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C07K 16/28; C12N 5/20
US CL : 530/388.22; 435/326; 424/143.1

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. : 530/388.22; 435/326; 424/143.1

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 practicable, search terms used)
Medline, STN, WEST and Sequence search

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CORPS et al. Role of the alpha1 domain in ligand binding by integrin alphaEbeta7. Eur. J. Immunol. 2003, Vol. 33, No. 9, pages 2599-2608.	1-29
X	HIGGINS et al. The role of alpha and beta chains in ligand recognition by beta 7 integrins. J. Biol. Chem. 18 August 2000, Vol. 275, No. 33, pages 25652-25664.	1-7 and 29
X	RUSSELL et al. Distinct structural and functional epitopes of the alpha E beta 7 integrin. Eur. J. Immunol. 1994, Vol. 24, No. 11, pages 2832-2841.	1-7
X	LUDVIKSSON et al. Administration of mAb against alpha E beta 7 prevents and ameliorates immunization-induced colitis in IL-2-/- mice. J. Immunol. 15 April 1999, Vol. 162, No. 8, pages 4975-4982.	1-7

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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