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(54) **Title:** IL-17 RECEPTOR A ANTIGEN BINDING PROTEINS

(57) **Abstract:** The present invention relates to IL-17 Receptor A (IL-17RA or IL-17R) antigen binding proteins, such as antibodies, polynucleotide sequences encoding said antigen binding proteins, and compositions and methods for diagnosing and treating diseases mediated by IL-17 Receptor A activation by one or more IL-17 ligands. The present invention relates to the identification of neutralizing determinants on IL-17 Receptor A (IL-17RA or IL-17R) and antibodies that bind thereto. Aspects of the invention also include antibodies that compete for binding with the IL-17RA neutralizing antibodies described herein.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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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)
C07K

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 , WPI Data, EMBASE, BIOSIS, Sequence Search

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2006/088925 A (WYETH CORP [US]; M OF HIGHER EDUCATION UNIVERSI [US]; KOLLS JAY K [US]) 24 August 2006 (2006-08-24) examples 1,2,3-5 claims 9-14,18,19 <div style="text-align: center;">----- -/-</div>	1-100

Further documents are listed in the continuation of Box C.

See patent family annex.

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Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

International application No

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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>MCALLISTER F ET AL: "Role of IL-17A, IL-17F, and the IL-17 receptor in regulating growth-related oncogene-a and granulocyte colony-stimulating factor in bronchial epithelium: Implications for airway inflammation in cystic fibrosis" JOURNAL OF IMMUNOLOGY, THE WILLIAMS AND WILKINS CO. BALTIMORE, vol. 175, no. 1, 1 July 2005 (2005-07-01), pages 404-412, XP002387883, ISSN: 0022-1767 cited in the application page 405, left-hand column, last paragraph - page 406, left-hand column, last paragraph</p>	1-100
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X	<p>YAO Z ET AL: "MOLECULAR CHARACTERIZATION OF THE HUMAN INTERLEUKIN (IL)-17 RECEPTOR" CYTOKINE, ACADEMIC PRESS LTD, PHILADELPHIA, PA, US, vol. 9, no. 11, 1 November 1997 (1997-11-01), pages 794-800, XP000867704, ISSN: 1043-4666 cited in the application page 797, right-hand column, last paragraph - page 798, right-hand column, paragraph 1 page 799, left-hand column, - paragraph 2</p>	1-100
X	<p>US 6 793 919 B2 (MOHLER KENDALL M [US]) 21 September 2004 (2004-09-21) column 1, line 55 - line 62 column 2, line 26 - line 30 column 4, line 5 - column 6, line 53 claim 1</p>	1-100
X	<p>US 6 072 037 A (YAO ZHENGBIN [CN] ET AL) 6 June 2000 (2000-06-06) example 6 claims 1,2</p>	1-100
A	<p>WO 2006/054059 A (UCB CELLTECH [GB]; ADAMS RALPH [GB]; POPPLEWELL ANDREW GEORGE [GB]; RA) 26 May 2006 (2006-05-26) page 25, line 25 - page 27, line 2 claims 30-33</p>	1-100

INTERNATIONAL SEARCH REPORT

International application No
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>KOLLS J K ET AL: "INTERLEUKIN-17 FAMILY MEMBERS AND INFLAMMATION" IMMUNITY, CELL PRESS, US, vol . 21, no. 4, 1 October 2004 (2004-10-01), pages 467-476, XP001205649 ISSN: 1074-7613 the whole document</p> <p style="text-align: center;">-----</p>	1-100
A	<p>GAFFEN SARAH L ET AL: "The "IL-17 cytokine family" VITAMINS AND HORMONES, ACADEMIC PRESS, NEW YORK, NY, US, 1 -January 2006 (2006-01-01), pages 255-282, XP009086501 ISSN: 0083-6729 the whole document</p> <p style="text-align: center;">-----</p>	1-100

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/US2007/021174
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