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ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: INTERNALIZING ANTI-CD74 ANTIBODIES AND METHODS OF USE

(57) Abstract: The present invention provides humanized, chimeric and human anti-CD74 antibodies, CD74 antibody fusion pro-
teins, immunoconjugates, vaccines and bispecific that bind to CD74, the major histocompatibility complex (MHC) class-II invariant
chain, Ii, which is useful for the treatment and diagnosis of B-cell disorders, such as B-cell malignancies, other malignancies in
which the cells are reactive with CD74, and autoimmune diseases, and methods of treatment and diagnosis.



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INTERNATIONAL SEARCH REPORT

Internat. Application No

PCT/GB 03/00890

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K16/28 A61K39/395 A61P35/02 G01N33/574

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)

IPC 7 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, BIOSIS, SCISEARCH, CHEM ABS Data, WPI Data, PAJ, SEQUENCE SEARCH, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	QU Z ET AL: "INTERNALIZATION AND CYTOTOXIC EFFECTS OF A HUMANIZED ANTI-CD74 ANTIBODY, LL1" PROCEEDINGS OF THE ANNUAL MEETING OF THE AMERICAN ASSOCIATION FOR CANCER RESEARCH, NEW YORK, NY, US, vol. 43, March 2002 (2002-03), page 255 XP001153818 ISSN: 0197-016X abstract	1-100
X	WO 00 74718 A (HANSEN HANS J ;GOLDENBERG DAVID M (US); IMMUNOMEDICS INC (US)) 14 December 2000 (2000-12-14) page 2, line 20 - line 25 page 7, line 1 -page 9, line 7 claims	1, 32-100
Y	---	2-31
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *R* document published prior to the international filing date but later than the priority date claimed

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- *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
- *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.
- *Z* document member of the same patent family

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INTERNATIONAL SEARCH REPORT

International Application No.

PCT/GB 03/00890

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 67795 A (GOLDENBERG DAVID M ;IMMUNOMEDICS INC (US)) 16 November 2000 (2000-11-16) page 9, line 19 -page 10, line 2 page 16, line 12 - line 19 claims	1,32-100
Y	---	2-31
X	WO 98 50435 A (US HEALTH ;NEWTON DIANNE L (US); RYBAK SUSANNA M (US); GOLDENBERG) 12 November 1998 (1998-11-12) page 5, line 16 -page 6, line 21 claims	1,32-100
Y	---	2-31
A	BENDIG M M: "HUMANIZATION OF RODENT MONOCLONAL ANTIBODIES BY CDR GRAFTING" METHODS: A COMPANION TO METHODS IN ENZYMOLOGY, ACADEMIC PRESS INC., NEW YORK, NY, US, vol. 8, 1995, pages 83-93, XP002943667 ISSN: 1046-2023 the whole document	1-100
A	OCHAKOVSKAYA R ET AL: "Therapy of disseminated B-cell lymphoma xenografts in severe combined immunodeficient mice with an anti-CD74 antibody conjugated with Indium, Gallium, or Yttrium" CLINICAL CANCER RESEARCH 2001 UNITED STATES, vol. 7, no. 6, 2001, pages 1505-1510, XP002255675 ISSN: 1078-0432 the whole document	1-100
A	MOLLER P ET AL: "CD74" JOURNAL OF BIOLOGICAL REGULATORS AND HOMEOSTATIC AGENTS 2000 ITALY, vol. 14, no. 4, 2000, pages 299-301, XP009018091 ISSN: 0393-974X the whole document	1-100

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB 03/00890

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

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

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims 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. ☐ Claims Nos.:
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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 32 - 79 and 98 - 100 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Although claims 80 - 83 are directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

INTERNATIONAL SEARCH REPORT

International Application No

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