Abstract:

Methods of diagnosing, detecting or treating cancer where the cancer expresses a tumor cell antigen that is elevated relative to the normal adjacent tissue, by administering an antibody or antibody fragment which binds to that tumor cell antigen. The methods involve the use of antibodies that bind to the tumor cell antigens KIAA1815, LOC157378, FU20421, DSCD75, GPR160, GPCR41, and SLC1A5.
A. CLASSIFICATION OF SUBJECT MATTER
INV. A61K39/00 A61K47/48 C07K16/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. REFDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
C07K A61K

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, EMBASE, MEDLINE, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category*</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No</th>
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<tr>
<td></td>
<td>Seq. ID. No. 3200; pages 61-67; claims ----</td>
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<tr>
<td>Y</td>
<td>HOUHMAND PANTEA ET AL: &quot;Targeting tumor cells.&quot;</td>
<td>1-5, 11-43</td>
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<td>CURRENT OPINION IN CELL BIOLOGY, vol. 15, no. 6, October 2003 (2003-10), pages 640-644, XP002457225</td>
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<td>ISSN: 0955-0674 the whole document ----</td>
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Further documents are listed in the continuation of Box C

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
  - 'E' earlier document but published on or after the international filing date
  - 'L' document which may throw doubts on novelty claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
  - 'O' document referring to an oral disclosure, use, exhibition or other means
  - 'P' document published prior to the international filing date but later than the priority date claimed

'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

'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

Date of the actual completion of the international search
31 October 2007

Date of mailing of the international search report
30/01/2008

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
Sommerfeld, Teresa
<table>
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<td>Y</td>
<td>KRAUSS JURGEN: &quot;Recombinant antibodies for the diagnosis and treatment of cancer.&quot; MOLECULAR BIOTECHNOLOGY, vol. 25, no. 1, September 2003 (2003-09), pages 1-17, XP009091556 ISSN: 1073-6085 the whole document 1-5, 11-43</td>
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INTERNATIONAL SEARCH REPORT

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 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:

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 No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

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

   see additional sheet

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 fees, this Authority did not invite payment of additional fees.

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.:

   1- 4, 11- 43 all partially; and 5

Remark on Protest

[ ] The additional search fees were accompanied by the applicant’s protest and, where applicable, the payment of a protest fee.

[ ] The additional search fees were accompanied by the applicant’s protest but the applicable protest fee was not paid within the time limit specified in the invitation.

[ ] No protest accompanied the payment of additional search fees.
This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-4, 11-43, all partially; and 5
   antibody or antibody fragment against tumor cell antigen
   KIAA1815, and related subject-matter

2. claims: 1-4, 11-43, all partially; and 6
   antibody or antibody fragment against tumor cell antigen
   L0C157378, and related subject-matter

3. claims: 1-4, 11-43, all partially; and 7
   antibody or antibody fragment against tumor cell antigen
   FLJ20421, and related subject-matter

4. claims: 1-4, 11-43, all partially; and 8
   antibody or antibody fragment against tumor cell antigen
   DSCD75, and related subject-matter

5. claims: 1-4, 11-43, all partially; and 9
   antibody or antibody fragment against tumor cell antigen
   GPR160, and related subject-matter

6. claims: 1-4, 11-43, all partially; and 10
   antibody or antibody fragment against tumor cell antigen
   GPCR41, and related subject-matter

7. claims: 1-4, 11-43, all partially
   antibody or antibody fragment against tumor cell antigen
   SLC1A5, and related subject-matter
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Form PCT/ISA/210 (patent family annex) (April 2005)