Title: ANTIBODY THERAPY FOR HIGHLY PATHOGENIC AVIAN INFLUENZA VIRUS

Abstract: The present invention relates to a monoclonal antibody against hemagglutinin of highly pathogenic avian influenza virus subtype H5 or functional fragment thereof, a hybridoma producing the monoclonal antibody, and a composition comprising the monoclonal antibody or functional fragment thereof. In addition, the present invention relates to a method for preventing or treating influenza virus infection by administering the composition to a subject, and an assay kit for influenza virus comprising the monoclonal antibody or functional fragment thereof.
### A. CLASSIFICATION OF SUBJECT MATTER

**C07K 16/14(2006.01)i**

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 C07K 16/14

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

### 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>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Hanson, B J et al 'Passive Immunoprophylaxis and therapy with humanized monoclonal antibody specific for influenza A H5 haemagglutinin in mice ' Respiratory Research Vol 7, pp 126 (14 October 2006) See abstract, Table 1, Table 2, and Fig 3</td>
<td>1-9</td>
</tr>
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<td>A</td>
<td>Bublot, M et al 'Efficacy of a fowlpox-vector avian influenza H5 vaccine against Asian H5N1 highly pathogenic avian influenza virus challenge ' Avian Diseases Vol 51(1 Suppl ), pp 498-500 (March 2007)</td>
<td>1-9</td>
</tr>
</tbody>
</table>

☐ Further documents are listed in the continuation of Box C

☐ See patent family annex

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* Special categories of cited documents
  
  "A" document defining the general state of the art which is not considered to be of particular relevance
  
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Date of the actual completion of the international search

15 APRIL 2009 (15 04 2009)

Date of mailing of the international search report

20 APRIL 2009 (20.04.2009)

Name and mailing address of the ISA/KR

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<tr>
<td>WO 2007/089753 A2</td>
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<td>CA 2637837 A1</td>
<td>09.08.2007</td>
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<td></td>
<td></td>
<td>EP 1977015 A2</td>
<td>08.10.2008</td>
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<td>KR 10-2008-0090532</td>
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