

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/JP2019/047754

**A. CLASSIFICATION OF SUBJECT MATTER**  
 A61K 48/00(2006.01)n; A61P 37/02(2006.01)n; C07K 14/705(2006.01)i; C07K 14/74(2006.01)i; C12P 21/02(2006.01)i; C12N 5/10(2006.01)i; C12N 15/12(2006.01)i; C12N 15/85(2006.01)i; A61K 38/16(2006.01)n  
 FI: C12N15/12 ZNA; C07K14/705; C07K14/74; C12N15/85 Z; C12N5/10; C12P21/02 C; A61K38/16; A61K48/00; A61P37/02  
 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)  
 A61K48/00; A61P37/02; C07K14/705; C07K14/74; C12P21/02; C12N5/10; C12N15/12; C12N15/85; A61K38/16

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

|  |           |
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| Published examined utility model applications of Japan   | 1922-1996 |
| Published unexamined utility model applications of Japan | 1971-2020 |
| Registered utility model specifications of Japan         | 1996-2020 |
| Published registered utility model applications of Japan | 1994-2020 |

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
 JSTPlus/JMEDPlus/JST7580 (JDreamIII); CAPLUS/MEDLINE/EMBASE/BIOSIS (STN); WPIDS/WPIX (STN)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category* | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|-----------|---|-----------------------|
| X         | US 2015/0104809 A1 (UNIVERSITY OF ESSEX ENTERPRISES LTD.) 16.04.2015 (2015-04-16) example 1   | 1, 7-11               |
| X         | METODIEVA, G., et al., "CD74-dependent deregulation of the tumor suppressor Scribble in human epithelial and breast cancer cells", Neoplasia (2013) vol.15, no. 6, pp. 660-668, ISSN: 1522-8002 page 660, abstract, page 661, left column, paragraph [0007] to right column, paragraph [0002], fig. 3-5 | 1, 7-11               |
| X         | US 2014/0024038 A1 (AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH) 23.01.2014 (2014-01-23) paragraphs [0022], [0079]-[0090]   | 1-8                   |
| A         | JP 2015-506366 A (BIOMMUNE TECHNOLOGIES INC.) 02.03.2015 (2015-03-02) claims  | 1-12                  |

Further documents are listed in the continuation of Box C.  See patent family annex.

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|---|--|
| * Special categories of cited documents:  | "I" 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  |
| "A" document defining the general state of the art which is not considered to be of particular relevance  | "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   |
| "E" earlier application or patent but published on or after the international filing date   | "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 |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "&" document member of the same patent family  |
| "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  |  |

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| Date of the actual completion of the international search<br>19 February 2020 (19.02.2020) | Date of mailing of the international search report<br>03 March 2020 (03.03.2020) |
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| Name and mailing address of the ISA/<br>Japan Patent Office<br>3-4-3, Kasumigaseki, Chiyoda-ku,<br>Tokyo 100-8915, Japan | Authorized officer<br><br>Telephone 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         | SUH., et al., "The biological function and significance of CD74 in immune diseases", Inflammation Research (2017) vol. 66, pp. 209-216, ISSN:1023-3830 page 209, abstract, page 211, fig. 1 | 1-12                  |

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
PCT/JP2019/047754

| Patent Documents referred in the Report | Publication Date | Patent Family      | Publication Date |
|---|------------------|--------------------|------------------|
| US 2015/0104809 A1                      | 16 Apr. 2015     | US 2016/0341733 A1 |                  |
| US 2014/0024038 A1                      | 23 Jan. 2014     | EP 1991692 A1      |                  |
|   |                  | WO 2007/097720 A2  |                  |
| JP 2015-506366 A                        | 02 Mar. 2015     | US 2015/0283226 A1 |                  |
|   |                  | claims             |                  |
|   |                  | EP 2807193 A1      |                  |
|   |                  | WO 2013/110163 A1  |                  |