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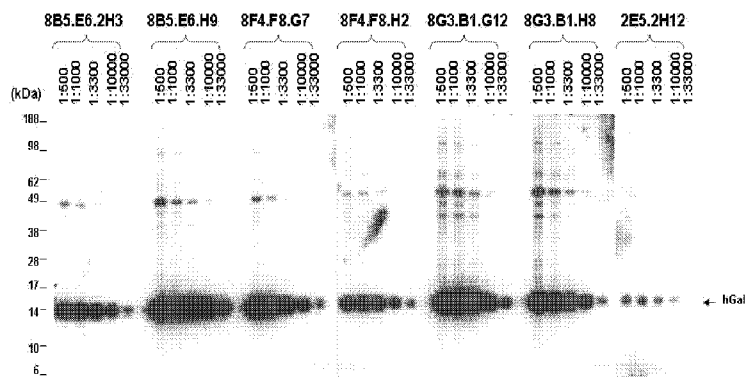
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[Continued on next page]

(54) Title: COMPOSITIONS, KITS, AND METHODS FOR THE DIAGNOSIS, PROGNOSIS, MONITORING, TREATMENT AND MODULATION OF POST-TRANSPLANT LYMPHOPROLIFERATIVE DISORDERS AND HYPOXIA ASSOCIATED ANGIOGENESIS DISORDERS USING GALECTIN-1

Figure 1



(57) Abstract: The present invention is based, in part, on the discovery that galectin-1 (Gal) plays a role in viral-associated PTLN, e.g., EBV-associated PTLN and hypoxia associated angiogenesis disorders. Accordingly, the invention relates to compositions, kits, and methods for diagnosing, prognosing, monitoring, treating and modulating viral-associated PTLN, e.g., EBV-associated PTLN and hypoxia associated angiogenesis disorders.



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amendments (Rule 48.2(h))

Published:

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A. CLASSIFICATION OF SUBJECT MATTER*C07K 16/18(2006.01)i, C07K 16/46(2006.01)i, C12N 15/13(2006.01)i, G01N 33/577(2006.01)i, A61K 39/395(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)

C07K 16/18; A61K 39/395; C07K 14/47; C12N 5/02; C07K 14/435; A61K 31/7012; A61K 31/732; G01N 33/574

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: Galectin-1, monoclonal antibody, VEGFR-2, Gal-1, PLTD

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CORNILLOT, J. D. et al. 'Production and characterization of a monoclonal antibody able to discriminate galectin-1 from galectin-2 and galectin-3.' , Glycobiology, May 1998, Vol. 8, No. 5, Pages 425-432. See the whole document.	1-15,61,68
A	THIJSEN, V. et al. 'Galectin-1 is essential in tumor angiogenesis and is a target for antiangiogenesis therapy.' , Proc. Natl. Acad. Sci. USA, 24 October 2006, Vol. 103, No. 43, Pages 15975-15980. See the whole document.	1-15,61,68
A	US 2009-0191182 A1 (SHIPP MARGARET A. et al.) 30 July 2009 See the whole document.	1-15,61,68
A	WO 2007-013807 A2 (RIJKSUNIVERSITEIT GRONINGEN et al.) 01 February 2007 See the whole document.	1-15,61,68
A	US 2003-0109464 A1 (MARGARET E. HUFLEJT et al.) 12 June 2003 See the whole document.	1-15,61,68
A	US 2003-0013681 A1 (YAN CHANG et al.) 16 January 2003 See the whole document.	1-15,61,68

 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 application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of 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

"&" document member of the same patent family

Date of the actual completion of the international search

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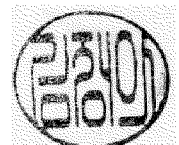
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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

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.: 16-60
because they relate to subject matter not required to be searched by this Authority, namely:
Claims 16-60 pertain to methods for treatment of the human body by therapy, as well as diagnostic methods, thus relate to a subject matter which this International Searching Authority is not required, under Article 17(2)(a)(i) of the PCT and Rule 39.1(iv) of the regulations under the PCT, to search.
2. Claims Nos.: 62-67
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:
Claim 62-67 is worded in reference to "the complex" of claim 60. However, said "the complex" is not mentioned in claim 60. Therefore, the subject matter of claims 62-67 is so unclear that no meaningful search could be made.
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:

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 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.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2010/056547

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