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(54) Title: NAPI TYPE IIB POLYPEPTIDES AND METHODS FOR MAKING AND USING SAME

(57) Abstract: Disclosed are isolated NaPiIIB polypeptides. Also disclosed are methods for screening a test compound for its ability to bind to or otherwise affect the function of Na⁺/phosphate cotransporter. The method includes providing an isolated NaPiIIB polypeptide; contacting the isolated NaPiIIB polypeptide with the test compound; and determining whether the test compound binds to or otherwise affects the function of isolated NaPiIIB polypeptide. Antibodies and fragments thereof specific for a isolated NaPiIIB polypeptide are also disclosed.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/01256

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C07K 14/705, 16/28; C12N 15/12; G01N 33/567
 US CL : 435/7.21, 69.1, 252.3, 320.1; 530/350, 388.22; 536/23.5

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)
 U.S. : 435/7.21, 69.1, 252.3, 320.1; 530/350, 388.22; 536/23.5

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 practicable, search terms used)
 Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	HILFIKER et al. Characterization of a murine type II sodium-phosphate cotransporter expressed in mammalian small intestines. Proceedings of the National Academy of Science. November 1998, Vol. 95, pages 14564-14569, see especially Figure1.	1-47
X	XU et al. Molecular cloning, functional characterization, tissue distribution, and chromosomal localization of a Human, small intestinal sodium-phosphate (Na ⁺ -Pi) transporter (SLC34A2). Genomics, 1999, Vol. 62, pages 281-284, see especially Figure1.	1-47
X	HASHIMOTO et al. Isolation and localization of Type IIb Na/Pi cotransporter in the developing rat lung. American Journal of Pathology. July 2000, Vol. 157, No.1, pages 21-27, see entire document.	1-47

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

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INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:
SPTREMBL, Published Applications, PIR 78, SwissProt, Issued Patents
searched SEQ ID NO:2