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GPNMB Rabbit pAb

Catalog # AP99476

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q14956
Other Accession	Q14956
Reactivity	Rat, Human
Predicted	Pig, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	63923
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GPNMB
Epitope Specificity	81-180/572
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the PMEL/NMB family. Contains 1 PKD domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene is a type I transmembrane glycoprotein which shows homology to the pMEL17 precursor, a melanocyte-specific protein. GPNMB shows expression in the lowly metastatic human melanoma cell lines and xenografts but does not show expression in the highly metastatic cell lines. GPNMB may be involved in growth delay and reduction of metastatic potential. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	10457
Other Names	HGFIN; NMB; PLCA3; DC-HIL; Dchil; ipd; GPNMB_HUMAN; GPNMB; Hematopoietic growth factor inducible neurokinin-1 type; GPNMB_MOUSE; Dendritic cell-associated transmembrane protein; Osteoactivin; GPNMB_RAT; glycoprotein nmb; glycoprotein (transmembrane) nmb; transmembrane glycoprotein; glycoprotein nmb-like protein; hematopoietic growth factor inducible neurokinin-1; glycoprotein nonmetastatic melanoma protein B
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	GPNMB
Synonyms	HGFIN {ECO:0000303|PubMed:12609765}, NMB
Function	Could be a melanogenic enzyme.
Cellular Location	Cell membrane; Single-pass type I membrane protein Melanosome membrane; Single-pass type I membrane protein. Early endosome membrane; Single-pass type I membrane protein. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV
Tissue Location	Widely expressed, but very low expression, if any, in the brain (PubMed:12609765, PubMed:16609006). Expressed in the epidermis with higher levels in melanocytes compared with keratinocytes and Langerhans cells (at protein level) (PubMed:29336782). Expressed in peripheral blood, but not bone marrow mononuclear cells (PubMed:12609765). Expressed in tissue macrophages, including liver Kuppfer cells and lung alveolar macrophages, in podocytes and in some cells of the ciliary body of the eye (at protein level) (PubMed:16489096). May be overexpressed in various cancers, including melanoma and glioblastoma multiforme (PubMed:16489096, PubMed:16609006, PubMed:7814155).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.