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GPNMB Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17232b

Specification

GPNMB Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q14956
Other Accession	NP_002501.1, NP_001005340.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**63923**
Antigen Region	**541-569**

GPNMB Antibody (C-term) - Additional Information

Gene ID 10457

Other Names
Transmembrane glycoprotein NMB, Transmembrane glycoprotein HGFIN, GPNMB, HGFIN, NMB

Target/Specificity
This GPNMB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 541-569 amino acids from the C-terminal region of human GPNMB.

Dilution
WB~~1:500

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
GPNMB Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

GPNMB Antibody (C-term) - 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

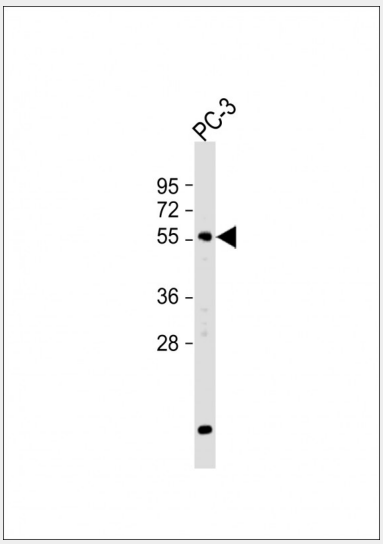
Tissue Location
Widely expressed, but very low expression, if any, in the brain (PubMed:12609765, PubMed:16609006). Expressed in the epidermis with higher levels in melanocytes compared with keratinocytes and Langerhans cells (at protein level) (PubMed:29336782). Expressed in peripheral blood, but not 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:7814155, PubMed:16489096, PubMed:16609006).

GPNMB Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GPNMB Antibody (C-term) - Images



Anti-GPNMB Antibody (C-term) at 1:500 dilution + PC-3 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 64 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

GPNMB Antibody (C-term) - Background

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.

GPNMB Antibody (C-term) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Williams, M.D., et al. Melanoma Res. 20(3):184-190(2010)
Hoashi, T., et al. FASEB J. 24(5):1616-1629(2010)
Rose, A.A., et al. Clin. Cancer Res. 16(7):2147-2156(2010)
Rose, A.A., et al. PLoS ONE 5 (8), E12093 (2010) :