



# GPNMB Monoclonal Antibody

Catalog No	BYmab-07064
Isotype	IgG
Reactivity	Human;Rat;Mouse
Applications	WB
Gene Name	GPNMB HGFIN NMB UNQ1725/PRO9925
Protein Name	Transmembrane glycoprotein NMB (Transmembrane glycoprotein HGFIN)
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	GPNMB Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	62kD
Cell Pathway	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 . Identified by mass spectrometry in melanosome fractions from stage I to stage IV. .
Tissue Specificity	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).
Function	developmental stage:Expression in poorly metastatic melanoma cell lines; no

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expression in highly metastatic melanoma cell lines.,function:Could be a melanogenic enzyme.,similarity:Belongs to the Pmel-17/NMB family.,similarity:Contains 1 PKD domain.,subcellular location:Identified by mass spectrometry in melanosome fractions from stage I to stage IV.,tissue specificity:Not restricted to the melanocytic lineage.,

**Background**

glycoprotein nmb(GPNMB) Homo sapiens 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],

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images