

Active Recombinant Full Length Human GPNMB Protein, C-Flag-tagged

Cat. No. GPNMB-321HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human GPNMB Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Pull-down assay
Molecular Mass	61.5 kDa
AA Sequence	MECLYYFLGFLLLAARLPLDAAKRFHDVLGNERPSAYMREHNQLNGWSSDENDWN EKLYPVWKRGRDMRWK NSWKGGRVQAVLTSDSPALVGSNITFAVNLIFPRCQKEDA NGNIVYEKNCRNEAGLSADPYVYNWTAWSE DSDGENGTGQSHHNVFPDGKPFPH HPGWRRWNFIYVFHTLGQYFQKLGRCSVRVSVNTANVTLGPQLMEV TVYRRHGR

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AYWPIAQVKDVYVVTDDQIPVFVTMFQKNDNRNSSDETFLKDLPIIMFDVLIHDP SHFLNY
 STIN YKWSFGDNTGLFVSTNHTVNHTYVLNGTFSLNLT VKAAAPGPCPPPPPPPPRP
 SKPTPSLATT LKSYDSNT PGPAGDNPLELSRIPDENCQINRYGHFQATITIVEGILEV
 NIIQMTDVLMPVPWPPESSLIDFVVCQGSIPTEVCTIISDPTCEITQNTVCSPVDVDE
 MCLLTVRRTFNGSGTYCVNLT LGDDTSLALTSTLISVPDRDP ASPLRMANSALISVG
 CLAIFVTVISLLVYKKHKEYNPIENSPGNVVR SKGLSVFLNRAKAVFFPGNQEKD
 PLLKNQEFKGVSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane
Full Length	Full L.

GENE INFORMATION

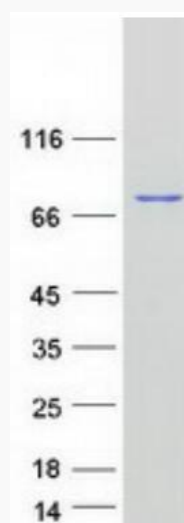
Gene Name	GPNMB glycoprotein nmb [Homo sapiens (human)]
Official Symbol	GPNMB
Synonyms	NMB; HGFN; PLCA3

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Gene ID	10457
mRNA Refseq	NM_001005340.2
Protein Refseq	NP_001005340.1
MIM	604368
UniProt ID	Q14956



Coomassie blue staining of purified GPNMB protein.