

Anti-GPNMB Neutralizing Antibody (V3S-0622-YC4534)

Cat. No.: V3S-0622-YC4534

Summary

Description	This product is a human monoclonal antibody that reacts with GPNMB. The antibody is expressed with mammalian cell transient expression system, serum-free and purified by affinity chromatography. The purity and integrity are tested via SDS-PAGE and SEC-HPLC analysis. Given an antigen, additional QC measures are also desired such as affinity testing and binding validation. Specifically, the antibody is provided in multiple formats for in vivo and in vitro assays. The <i>In vivo</i> version features greater than 95% purity, ultra-low endotoxin levels (<1 EU/mg or 0.1 EU/mg), and is preservative, stabilizer, and carrier protein-free.
Clonality	Monoclonal
Host Species	Human
Target Species	Human
Isotype	IgG
Isotype Control	C34555
Secondary Antibody	C32400; C75370; C10513; C51635; C45530

Property

Expression Species	HEK293F or CHO
Conjugation	None
Purity	>95%, determined by SDS-PAGE and/or SEC-HPLC
Endotoxin	<1 EU/mg, determined by LAL method
Purification	Protein A affinity purified
Sterility	0.2 µM filtered
Formulation	PBS, pH 7.4
Preservation	No preservatives
Stabilizer	No stabilizers
Storage	Store at 4°C within a week. For longer storage, aliquot and store at -20°C.

Applications

For lab research use only, not for diagnostic, therapeutic or any *in vivo* human use.

Application	WB; IF; IP; Neut; FuncS; ELISA; FC
Application Notes	The antibody is recommended for detection of GPNMB by WB, IF, IP, Neut, FuncS, ELISA, FC assays.

Target

Target	GPNMB
Alternative Name	glycoprotein (transmembrane) nmb; transmembrane glycoprotein NMB; glycoprotein NMB; glycoprotein nmb like protein; HGFIN; NMB; osteoactivin; transmembrane glycoprotein; glycoprotein
Gene ID	10457
UniProt	Q14956
Introduction	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]GPNMB (Glycoprotein Nmb) is a Protein Coding gene. Diseases associated with GPNMB include Melanoma and Glioblastoma Multiforme. Among its related pathways are Signaling by GPCR and Signaling by PTK6. Gene Ontology (GO) annotations related to this gene include heparin binding and integrin binding. An important paralog of this gene is PMEL. Could be a melanogenic enzyme.
Related pathway	Growth delay and reduction of metastatic potential
Research Area	Immunology; Cancer Research

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