Recombinant Anti-GPNMB (ECD domain) Antibody (V3S-0522-YC6166)

Cat. No.: V3S-0522-YC6166

Summary

Description	This product is a monoclonal antibody derived from Human (*Homo sapiens*), which can specifically recognize Glycoprotein Nmb. 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 *In vivo* 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
Immunogen	GPNMB
Epitope	Located in extracellular domain.
Affinity	KD = 1.5 nM, determined by surface plasmon resonance.
Isotype	IgG2
Isotype Control	C34555
Secondary Antibody	C32400; C75370; C10513; C51635; C45530; C47006

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

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Storage	Store at 4^{o}C within a week. For longer storage, aliquot and store at -20^{o}C.

Applications

Application	ELISA
Application Notes	The antibody is recommended for detection of GPNMB by ELISA assay.

Target

Target	GPNMB
Alternative Name	NMB; HGFIN
Gene ID	6620
UniProt	Q14956
Introduction	The protein encoded by this gene is a type I transmembrane glycoprotein which shows homol ogy to the pMEL17 precursor, a melanocyte-specific protein. GPNMB shows expression in th e lowly metastatic human melanoma cell lines and xenografts but does not show expression i n the highly metastatic cell lines. GPNMB may be involved in growth delay and reduction of metastatic potential.
Research Area	Neuroscience
Related Disease	Breast cancer

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