

GPNMB Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant GPNMB.

Catalog # AT2244a

Product Information

Application	WB, E
Primary Accession	Q14956
Other Accession	NM_001005340
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	1A8
Calculated MW	63923

Additional Information

Gene ID	10457
Other Names	Transmembrane glycoprotein NMB, Transmembrane glycoprotein HGFIN, GPNMB, HGFIN, NMB
Target/Specificity	GPNMB (NP_001005340, 104 a.a. ~ 203 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	GPNMB Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

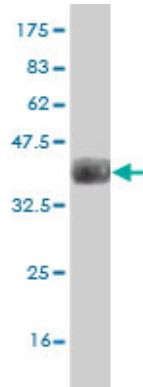
The protein encoded by this gene is a type I transmembrane glycoprotein which shows homology to the pMEL17 precursor, a melanocyte-specific protein. GPNMB shows expression in the lowly metastatic human melanoma cell lines and xenografts but does not show expression in the highly metastatic cell lines. GPNMB may be involved in growth delay and reduction of metastatic potential. Two transcript variants encoding different isoforms have been found for this gene.

References

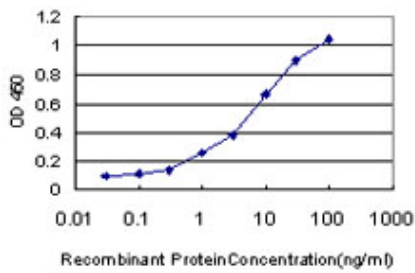
- 1.GPNMB/OA protein increases the invasiveness of human metastatic prostate cancer cell lines DU145 and

PC3 through MMP-2 and MMP-9 activity. Fiorentini C, Bodei S, Bedussi F, Fragni M, Bonini SA, Simeone C, Zani D, Berruti A, Missale C, Memo M, Spano P, Sigala S *Exp Cell Res*. 2014 Feb 28. pii: S0014-4827(14)00088-3. doi: 10.1016/j.yexcr.2014.02.025.2. Bioinformatic and statistical analysis of the optic nerve head in a primate model of ocular hypertension. Kompass KS, Agapova OA, Li W, Kaufman PL, Rasmussen CA, Hernandez MR. *BMC Neurosci*. 2008 Sep 26;9:93.

Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 kDa) .



Detection limit for recombinant GST tagged GPNMB is approximately 0.3 ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.