10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GPNMB Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant GPNMB.
Catalog # AT2244a

Specification

GPNMB Antibody (monoclonal) (M01) - Product Information

Application	**WB, E**
Primary Accession	Q14956
Other Accession	NM_001005340
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 Kappa**
Calculated MW	**63923**

GPNMB Antibody (monoclonal) (M01) - 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

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.

GPNMB Antibody (monoclonal) (M01) - Protocols

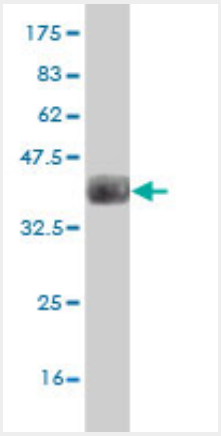
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

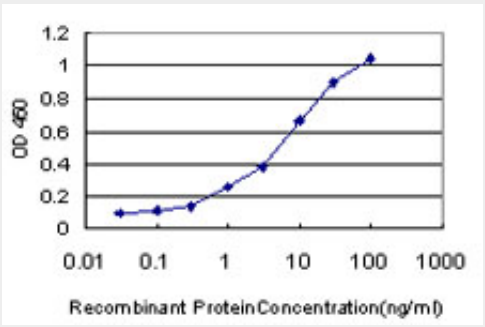
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GPNMB Antibody (monoclonal) (M01) - Images



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



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

GPNMB Antibody (monoclonal) (M01) - 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.

GPNMB Antibody (monoclonal) (M01) - 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 SExp 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.