

Mouse anti-Human GPNMB Monoclonal Antibody | anti-GPNMB antibody

Anti-GPNMB/Osteoactivin Antibody; GPNMB / Osteoactivin

CATALOG # AAA12347	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot, ELISA
------------------------------	----------------------	----------------------------	--

PRODUCT SYNONYMS

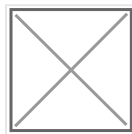
GPNMB; Monoclonal Antibody; Anti-GPNMB/Osteoactivin Antibody; GPNMB / Osteoactivin; Anti-GPNMB Antibody (clone 3A5) IHC-plus; Glycoprotein nmb-like protein; HGFIN; Glycoprotein NMB; Osteoactivin; Transmembrane glycoprotein NMB; Human GPNMB; anti-GPNMB antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3A5
Specificity	Human GPNMB
Purity/Purification	Purified from ascites by Protein A
Form/Format	PBS, pH 7.4
Concentration	0.5 mg/ml (varies by lot)
Sequence Length	560
Applicable Applications for anti-GPNMB antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Application Notes	IHC-P (5 ug/ml), Western Blot: Recombinant protein. Optimal dilution to be determined by the researcher
Immunogen Species	Antibody was raised against Human
Immunogen	GPNMB/Osteoactivin Antibody was raised against gPNMB (AAH32783.1, 1 a.a.~572 a.a) full length recombinant protein with GST tag
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

Recommended Immunohistochemistry Protocol	The following protocol is a recommendation only, and AAA Biotech, Inc. makes no guarantee of the results: Tissue Preparation: Formalin fixation and embedding in paraffin wax. Tissue Sectioning: Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C. Deparaffinization: Wash dry slides in 3 changes of xylene - 5 minutes each @ RT Rehydration: Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes Remove from heat and let stand at room temperature in buffer - 20 minutes Rinse in 1X TBS with Tween (TBST) -1 minute @ RT Immunostaining: (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1 X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip
Preparation and Storage	Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Anti-GPNMB antibody IHC of human skin. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/ml.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505405
NCBI GeneID	10457
NCBI Accession #	NP_002501.1

NCBI GenBank Nucleotide #	NM_002510.2
UniProt Accession #	Q14956; Q6UVX1; Q8N1A1; A4D155
NCBI Official Full Name	transmembrane glycoprotein NMB isoform b
NCBI Official Synonym Full Names	glycoprotein (transmembrane) nmb
NCBI Official Symbol	GPNMB
NCBI Official Synonym Symbols	NMB; HGFIN
NCBI Protein Information	transmembrane glycoprotein NMB; osteoactivin; glycoprotein nmb-like protein; transmembrane glycoprotein HGFIN
UniProt Protein Name	Transmembrane glycoprotein NMB
UniProt Gene Name	GPNMB
UniProt Synonym Gene Names	HGFIN; NMB
UniProt Entry Name	GPNMB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/gpnmb-antibody-clone-3a5-immunohistochemistry-western-blot-elisa/12347>