

For Research Use Only

# GPNMB Monoclonal antibody

Catalog Number: 66926-1-Ig **4 Publications**



## Basic Information

<b>Catalog Number:</b> 66926-1-Ig	<b>GenBank Accession Number:</b> BC011595	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1500 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 10457	<b>CloneNo.:</b> 2B10B8
<b>Source:</b> Mouse	<b>Full Name:</b> glycoprotein (transmembrane) nmb	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:500-1:2000 IF 1:125-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 64 kDa	
<b>Immunogen Catalog Number:</b> AG26747	<b>Observed MW:</b> 64-70 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF, IHC, WB	<b>WB :</b> SK-BR-3 cells, HT-1080 cells, HeLa cells, A375 cells, U-251 cells, THP-1 cells, RAW 264.7 cells, PC-12 cells, U-937 cells
<b>Species Specificity:</b> Human, mouse, rat	<b>IHC :</b> human liver tissue,
<b>Cited Species:</b> human, mouse	<b>IF :</b> HeLa cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

GPNMB also known as HGFIN, osteoactivin, and DC-HIL, is a type I membrane glycoprotein involved in various biological processes, including inflammation, invasion and metastasis of malignant tumors, cell differentiation, and tissue regeneration. 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 acts as an osteogenic factor that stimulates osteoblast differentiation in vivo and in vitro.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xi-Xi Wu	38141793	Cell Signal	WB,IHC
Yaling Zheng	38048667	Int Immunopharmacol	WB,IF
Ying Lin	37806107	Int Immunopharmacol	WB,IHC,IF

## Storage

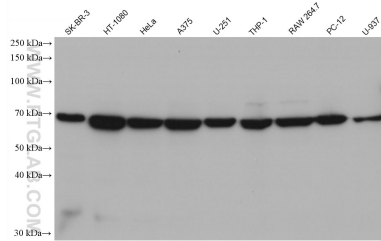
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

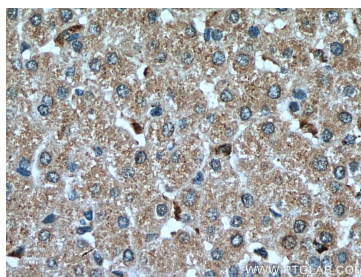
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

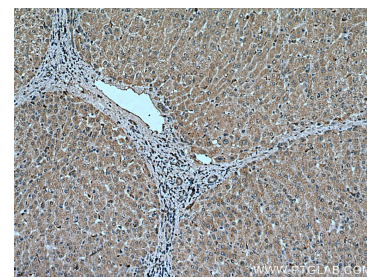
## Selected Validation Data



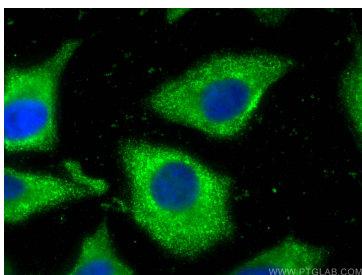
Various lysates were subjected to SDS PAGE followed by western blot with 66926-1-Ig (GPNMB antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66926-1-Ig (GPNMB antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieved with Sodium Citrate buffer (pH 6.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66926-1-Ig (GPNMB antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieved with Sodium Citrate buffer (pH 6.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using GPNMB antibody (66926-1-Ig, Clone: 2B10B8) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).