

For Research Use Only

# GPNMB Monoclonal antibody

Catalog Number: 66926-1-Ig **10 Publications**



## Basic Information

<b>Catalog Number:</b> 66926-1-Ig	<b>GenBank Accession Number:</b> BC011595	<b>Purification Method:</b> Protein G purification
<b>Concentration:</b> 1500 ug/ml	<b>GeneID (NCBI):</b> 10457	<b>CloneNo.:</b> 2B10B8
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q14956	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:500-1:2000 IF/ICC 1:125-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> glycoprotein (transmembrane) nmb	
<b>Immunogen Catalog Number:</b> AG26747	<b>Calculated MW:</b> 64 kDa <b>Observed MW:</b> 64-70 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b> <b>WB :</b> SK-BR-3 cells, A549 cells, HT-1080 cells, RT-4 cells, MG-63 cells, FaDu cells, MDA-MB-468 cells, PC-12 cells, RAW 264.7 cells, 4T1 cells, HeLa cells, A375 cells, U-251 cells, THP-1 cells, U-937 cells <b>IHC :</b> human liver tissue, <b>IF/ICC :</b> HeLa cells,
<b>Cited Applications:</b> WB, IHC, IF	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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
Donghoon Lee	39677435	medRxiv	
Bo Lv	39423796	Mol Cell	WB
Kangyun Wu	39252892	medRxiv	IF

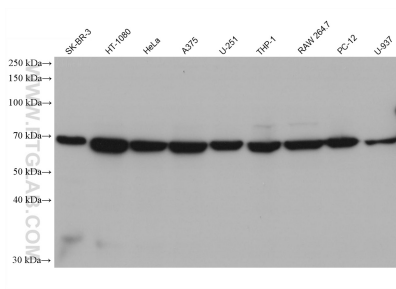
## Storage

**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

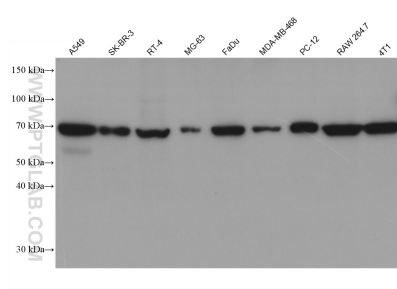
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

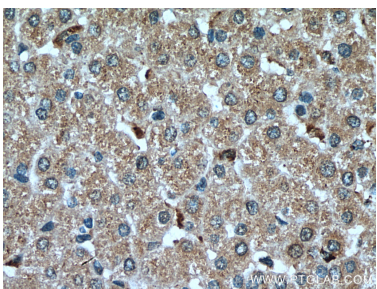
## Selected Validation Data



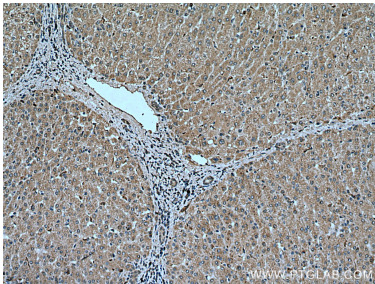
Various lysates were subjected to SDS PAGE followed by western blot with 66926-1-Ig (GPNMB antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



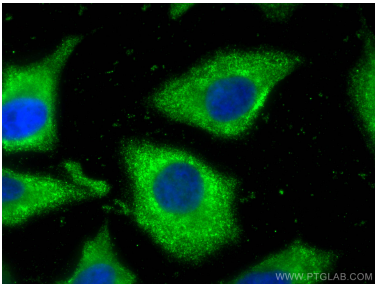
Various lysates were subjected to SDS PAGE followed by western blot with 66926-1-Ig (GPNMB antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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).