

For Research Use Only

# GPNMB Recombinant monoclonal antibody

Catalog Number: 86874-1-RR



## Basic Information

<b>Catalog Number:</b> 86874-1-RR	<b>GenBank Accession Number:</b> NM_053110.4	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 93695	<b>CloneNo.:</b> 250309C11
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q99P91	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:500-1:2000
<b>Isotype:</b> IgG	<b>Full Name:</b> glycoprotein (transmembrane) nmb	
<b>Immunogen Catalog Number:</b> EG2814	<b>Calculated MW:</b> 64 kDa	
	<b>Observed MW:</b> 90-100 kDa, 120kDa	

## Applications

**Tested Applications:**  
WB, IHC, IP, ELISA

**Species Specificity:**  
mouse, rat

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

**Positive Controls:**

WB : RAW 264.7 cells, mouse skin tissue, rat skin tissue

IP : mouse skin tissue,

IHC : mouse heart tissue,

## 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.

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

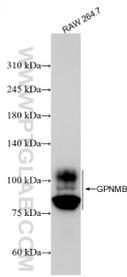
For technical support and original validation data for this product please contact:

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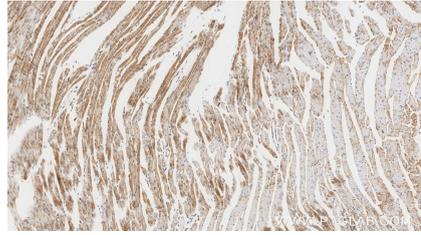
E: proteintech@ptglab.com  
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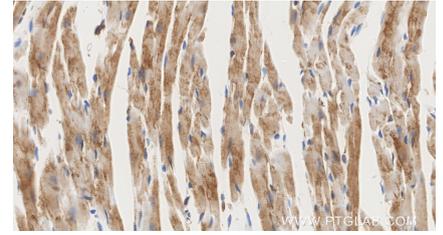
## Selected Validation Data



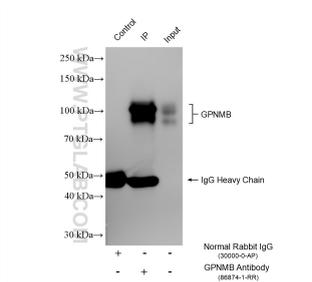
RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 86874-1-RR (Gpnmb antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 86874-1-RR (GPNMB antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 86874-1-RR (GPNMB antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-GPNMB (IP:86874-1-RR, 4ug; Detection:86874-1-RR 1:1500) with mouse skin tissue lysate 1120 ug.