

For Research Use Only

GPNMB Recombinant monoclonal antibody

Catalog Number: 86874-1-RR



Basic Information

Catalog Number: 86874-1-RR	GenBank Accession Number: NM_053110.4	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 93695	CloneNo.: 250309C11
Isotype: IgG	UNIPROT ID: Q99P91	Recommended Dilutions: 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
Immunogen Catalog Number: EG2814	Full Name: glycoprotein (transmembrane) nmb	
	Calculated MW: 64 kDa	
	Observed MW: 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

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

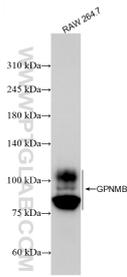
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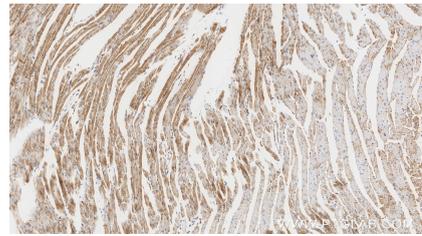
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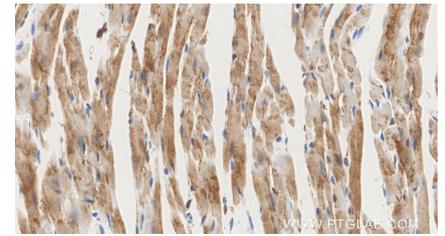
Selected Validation Data



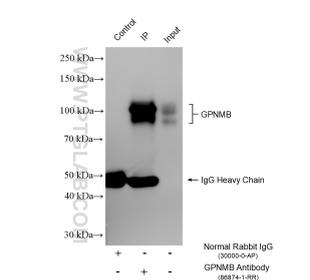
RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 86874-1-RR (Gpmb antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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.