For Research Use Only

Mouse GPNMB Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number:86874-1-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
86874-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
EG2814

GenBank Accession Number:
NM_053110.4

GeneID (NCBI):
93695

UNIPROT ID:
Q99P91

Full Name:
glycoprotein (transmembrane) nmb

Calculated MW:
64 kDa

Observed MW:
90-100 kDa, 120kDa

Purification Method:
Protein A purification

CloneNo.:
250309C11

Applications

Tested Applications:
WB, IHC, IP, Sandwich ELISA, Indirect ELISA

Species Specificity:
mouse, rat

Product Information

86874-1-PBS targets GPNMB as part of a matched antibody pair:

MP02737-1: 86874-1-PBS capture and 86874-2-PBS detection (validated in Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

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.

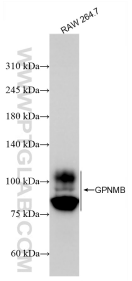
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

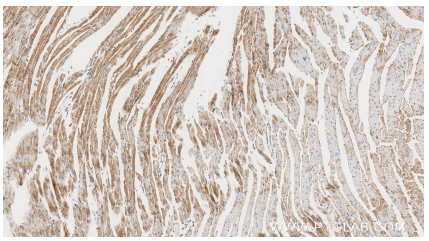
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

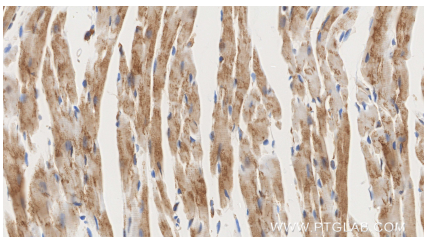
Selected Validation Data



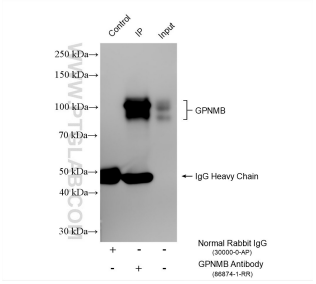
RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 86874-1-RR (Gpnmb antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86874-1-PBS in a different storage buffer formulation.



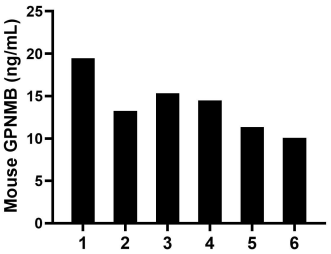
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 86874-1-RR (GPNMB antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 86874-1-PBS in a different storage buffer formulation.



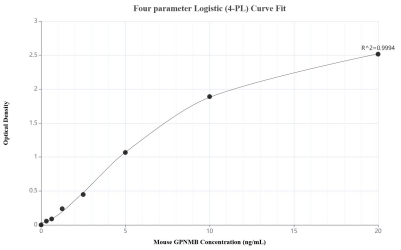
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 86874-1-RR (GPNMB antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 86874-1-PBS in a different storage buffer formulation.



IP result of anti-GPNMB (IP:86874-1-RR, 4ug; Detection:86874-1-RR 1:1500) with mouse skin tissue lysate 1120 ug. This data was developed using the same antibody clone with 86874-1-PBS in a different storage buffer formulation.



Serum of six mice was measured. The GPNMB concentration of detected samples was determined to be 14.00 ng/mL with a range of 10.09-19.47 ng/mL.



Sandwich ELISA standard curve of MP02737-1, Mouse GPNMB Recombinant Matched Antibody Pair - PBS only. 86874-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg2814. 86874-2-PBS was HRP conjugated as the detection antibody. Range: 0.313-20 ng/mL.