

Mouse BMP9 Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number: 86411-1-PBS

Basic Information

Catalog Number: 86411-1-PBS	GenBank Accession Number: NM_019506.4	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 12165	CloneNo.: 250512B9
Source: Rabbit	UNIPROT ID: Q9WV56	
Isotype: IgG	Full Name: growth differentiation factor 2	
Immunogen Catalog Number: EG2482	Calculated MW: 48 kDa	
	Observed MW: 33 kDa	

Applications

Tested Applications:
WB, Sandwich ELISA, Indirect ELISA, Sample test

Species Specificity:
human, mouse, rat

Product Information

86411-1-PBS targets BMP9 as part of a matched antibody pair:

MP02608-1: 86411-1-PBS capture and 86411-2-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

Bone morphogenetic protein-9 (BMP9, also termed growth-differentiation factor-2, GDF-2) is a secreted signaling molecule that belongs to the transforming growth factor- β (TGF- β) super-family. First identified in fetal mouse liver cDNA libraries, BMP9 is predominantly produced by hepatic stellate cells and circulates at relatively high concentrations in adult plasma. BMP9 is synthesized as a precursor protein (pre-proBMP9) composed of 429 amino acids (aa) that includes a 22 aa signal peptide, a 297 aa prodomain (33 kDa) and a 110 aa mature protein (12.5 kDa). It is then cleaved by serine endoproteases, leading to a short dimeric mature form of 25 kDa, and the prodomain which can remain noncovalently associated with the mature short form, giving a size of about 100 kDa (PMID:21710321).

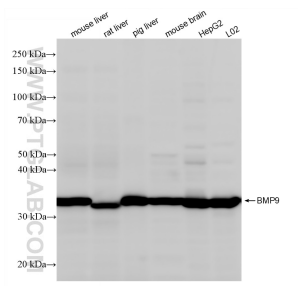
Storage

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

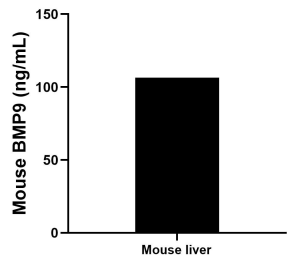
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

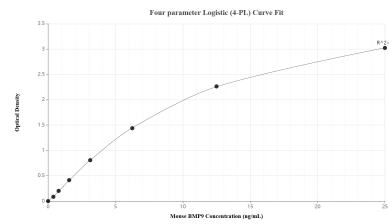
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86411-1-RR (Gdf2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86411-1-PBS in a different storage buffer formulation.



The mean BMP9 concentration was determined to be 106.40 ng/mL in mouse liver tissue extract based on a 8.40 mg/mL extract load.



Sandwich ELISA standard curve of MP02608-1, Mouse BMP9 Recombinant Matched Antibody Pair - PBS only. 86411-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg2482. 86411-2-PBS was HRP conjugated as the detection antibody. Range: 0.391-25 ng/mL.