

For Research Use Only

PPP1R12B Recombinant monoclonal antibody, PBS Only

Catalog Number:87808-1-PBS



Basic Information

Catalog Number: 87808-1-PBS	GenBank Accession Number: BC034430	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 4660	CloneNo.: 253416D1
Isotype: IgG	UNIPROT ID: O60237	
Immunogen Catalog Number: AG4185	Full Name: protein phosphatase 1, regulatory (inhibitor) subunit 12B	
	Calculated MW: 982 aa, 110 kDa	
	Observed MW: 110-130 kDa	

Applications

Tested Applications:
WB, IF/ICC, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

PPP1R12B (MYPT2) is a critical regulatory subunit of protein phosphatase 1, primarily functioning in muscle tissues to control myosin phosphatase activity and calcium sensitivity of contraction. Its tissue-specific expression, particularly enrichment in heart and skeletal muscle, along with multiple alternatively spliced isoforms, enables specialized roles in different cellular contexts. The protein's ankyrin repeats and C-terminal kinase-interacting domain facilitate its function as a molecular scaffold that directs PP1 catalytic activity toward specific substrates.

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

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

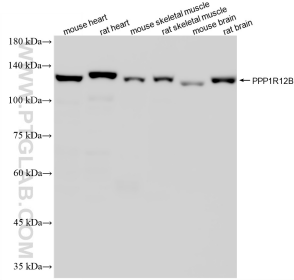
T: 4006900926

E: Proteintech-CN@ptglab.com

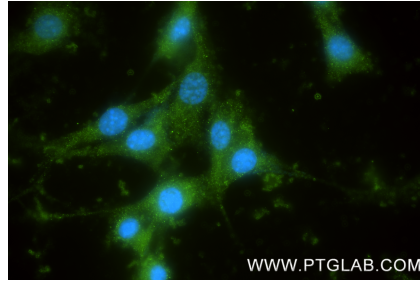
W: ptgcn.com

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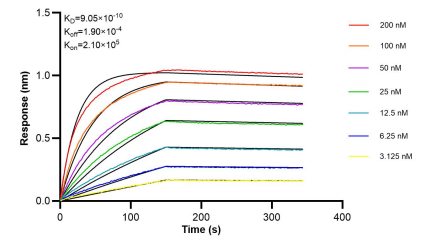
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87808-1-RR (PPP1R12B antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87808-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Methanol) fixed NIH/3T3 cells using PPP1R12B antibody (87808-1-RR, Clone: 253416D1) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 87808-1-PBS in a different storage buffer formulation.



Bi-layer interferometry (BLI) kinetic assays of 87808-1-RR against Human PPP1R12B were performed. The affinity constant is 0.905 nM.