

For Research Use Only

PPP3CA Recombinant monoclonal antibody, PBS Only

Catalog Number: 87902-1-PBS



Basic Information

Catalog Number: 87902-1-PBS	GenBank Accession Number: BC025714	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 5530	CloneNo.: 253412F1
Source: Rabbit	UNIPROT ID: Q08209	
Isotype: IgG	Full Name: protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform	
Immunogen Catalog Number: AG4203	Calculated MW: 59 kDa	
	Observed MW: 59 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

PPP3CA, also called calcineurin A α , is the only serine/threonine protein phosphatase under the control of Ca²⁺/calmodulin, and plays a critical role in the coupling of Ca²⁺ signals to cellular responses. Ca²⁺ signaling plays a central role in hypertrophic growth of cardiac and skeletal muscle in response to mechanical load and a variety of signals. Therefore, PPP3CA plays an important role in muscle differentiation, especially in muscle fiber type conversion. It is also involved in osteoclast regulation, regulating bone formation through an effect on osteoblast differentiation.

Storage

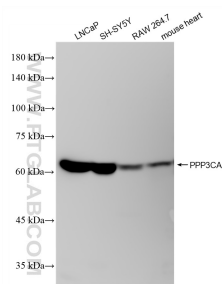
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

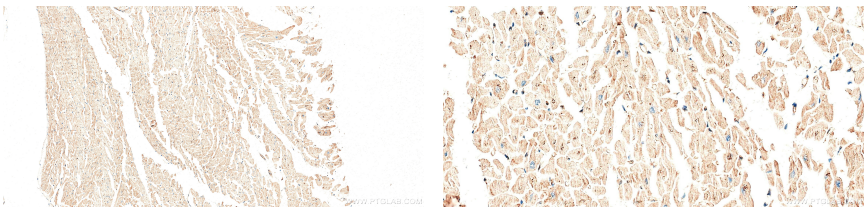
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data

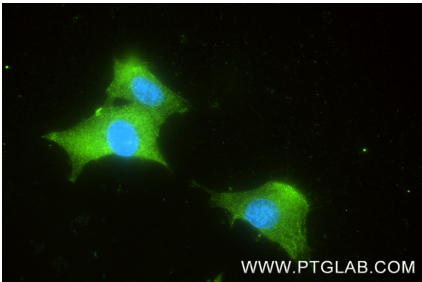


Various lysates were subjected to SDS PAGE followed by western blot with 87902-1-RR (PPP3CA antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87902-1-PBS in a different storage buffer formulation.

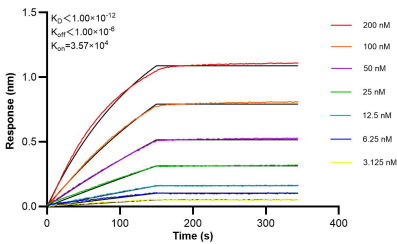


Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 87902-1-RR (PPP3CA antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 87902-1-PBS in a different storage buffer formulation.

Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 87902-1-RR (PPP3CA 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 87902-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using PPP3CA antibody (87902-1-RR, Clone: 253412F1) at dilution of 1:400 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 87902-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 87902-1-RR against Human PPP3CA were performed. The affinity constant is below 1 pM.