

For Research Use Only

Myozenin 2 Polyclonal antibody

Catalog Number: 11450-1-AP **2 Publications**



Basic Information

Catalog Number: 11450-1-AP	GenBank Accession Number: BC017402	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 600 ug/ml by Nanodrop;	GeneID (NCBI): 51778	Recommended Dilutions: WB 1:2000-1:12000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q9NPC6	
Isotype: IgG	Full Name: myozenin 2	
Immunogen Catalog Number: AG2008	Calculated MW: 30 kDa	
	Observed MW: 30-35 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: WB	WB : mouse heart tissue, rat heart tissue
Species Specificity: human, mouse, rat	IHC : human heart tissue, mouse brain tissue
Cited Species: 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

Background Information

MYOZ2 gene encodes for the calcineurin-binding protein myozenin-2 (or Calsarcin-1) belonging to myozenin family. Defects in MYOZ2 gene are the cause of familial hypertrophic cardiomyopathy type 16 (CMH16), a hereditary heart disorder characterized by ventricular hypertrophy. The disorder has inter- and intrafamilial variability ranging from benign to malignant forms with high risk of cardiac failure and sudden cardiac death (PMID: 17347475). Myozenins may serve as intracellular binding proteins involved in linking Z line proteins such as alpha-actinin, and gamma-filamin. Important role in the modulation of calcineurin signaling and myofibrillogenesis of myozenin-2 have been elucidated (PMID: 11114196). Proteintech's Myozenin-2 antibody 11450-1-AP was raised against full-length protein of human origin and is able to detect band of approximate 34 kDa in Western blotting.

Notable Publications

Author	Pubmed ID	Journal	Application
Jin Rong Ow	27667720	Sci Rep	WB
Li-Hui Li	30662282	J Pain Res	WB

Storage

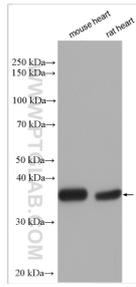
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

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
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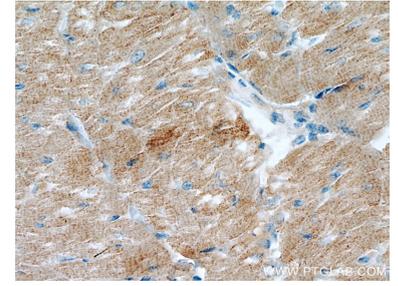
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 11450-1-AP (Myozenin 2 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 11450-1-AP (Myozenin 2 antibody) at dilution of 1:200 (under 10x Lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 11450-1-AP (Myozenin 2 antibody) at dilution of 1:200 (under 40x Lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).