

# Myozenin 2 Polyclonal antibody

Catalog Number: 11450-1-AP

2 Publications

## Basic Information

## Catalog Number:

11450-1-AP

## Size:

133 µg/ml

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG2008

## GenBank Accession Number:

BC017402

## GeneID (NCBI):

51778

## UNIPROT ID:

Q9NPC6

## Full Name:

myozenin 2

## Calculated MW:

30 kDa

## Observed MW:

30-35 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:2000-1:12000

IHC 1:50-1:500

## Applications

## Tested Applications:

IHC, WB, ELISA

## Cited Applications:

WB

## Species Specificity:

human, mouse, rat

## 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**

## Positive Controls:

WB : mouse heart tissue, rat heart tissue

IHC : human heart tissue, mouse brain tissue

## 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

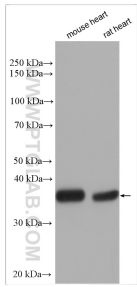
For technical support and original validation data for this product please contact:

T: 4006900926

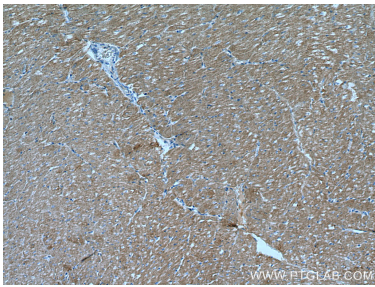
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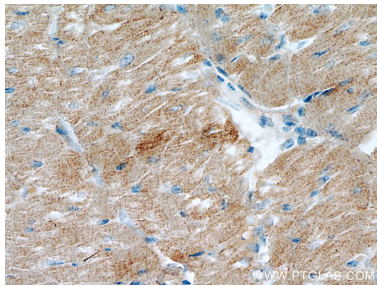
## Selected Validation Data



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).