



## Rabbit Anti-Myozenin 2 antibody

SL18975R

<b>Product Name:</b>	Myozenin 2
<b>Chinese Name:</b>	肌肉特异性蛋白MYOZ2抗体
<b>Alias:</b>	C4orf5; Calcineurin binding protein calsarcin 1; Calsarcin 1; Calsarcin-1; Calsarcin1; CMH16; CS 1; CS1; FATZ related protein 2; FATZ-related protein 2; Muscle specific protein; MYOZ 2; MYOZ2; MYOZ2_HUMAN; Myozenin-2; Myozenin2.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	30kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Myozenin 2:1-100/264
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	The protein encoded by this gene belongs to a family of sarcomeric proteins that bind to calcineurin, a phosphatase involved in calcium-dependent signal transduction in diverse cell types. These family members tether calcineurin to alpha-actinin at the z-line of the sarcomere of cardiac and skeletal muscle cells, and thus they are important for calcineurin signaling. Mutations in this gene cause cardiomyopathy familial

hypertrophic type 16, a hereditary heart disorder. [provided by RefSeq, Aug 2011]

**Function:**

Myozenins may serve as intracellular binding proteins involved in linking Z line proteins such as alpha-actinin, gamma-filamin, TCAP/telethonin, LDB3/ZASP and localizing calcineurin signaling to the sarcomere. Plays an important role in the modulation of calcineurin signaling. May play a role in myofibrillogenesis.

**Subcellular Location:**

Cytoplasm > myofibril > sarcomere > Z line. Colocalizes with ACTN1 and PPP3CA at the Z-line of heart and skeletal muscle.

**Tissue Specificity:**

Expressed specifically in heart and skeletal muscle.

**DISEASE:**

Defects in MYOZ2 are the cause of familial hypertrophic cardiomyopathy type 16 (CMH16) [MIM:613838]. CMH16 is a hereditary heart disorder characterized by ventricular hypertrophy, which is usually asymmetric and often involves the interventricular septum. The symptoms include dyspnea, syncope, collapse, palpitations, and chest pain. They can be readily provoked by exercise. The disorder has inter- and intrafamilial variability ranging from benign to malignant forms with high risk of cardiac failure and sudden cardiac death.

**Similarity:**

Belongs to the myozenin family.

**SWISS:**

Q9NPC6

**Gene ID:**

51778

**Database links:**

[Entrez Gene: 51778](#) Human

[Entrez Gene: 540487](#) Cow

[Entrez Gene: 59006](#) Mouse

[Entrez Gene: 295426](#) Rat

[Entrez Gene: 100526817](#) Sheep

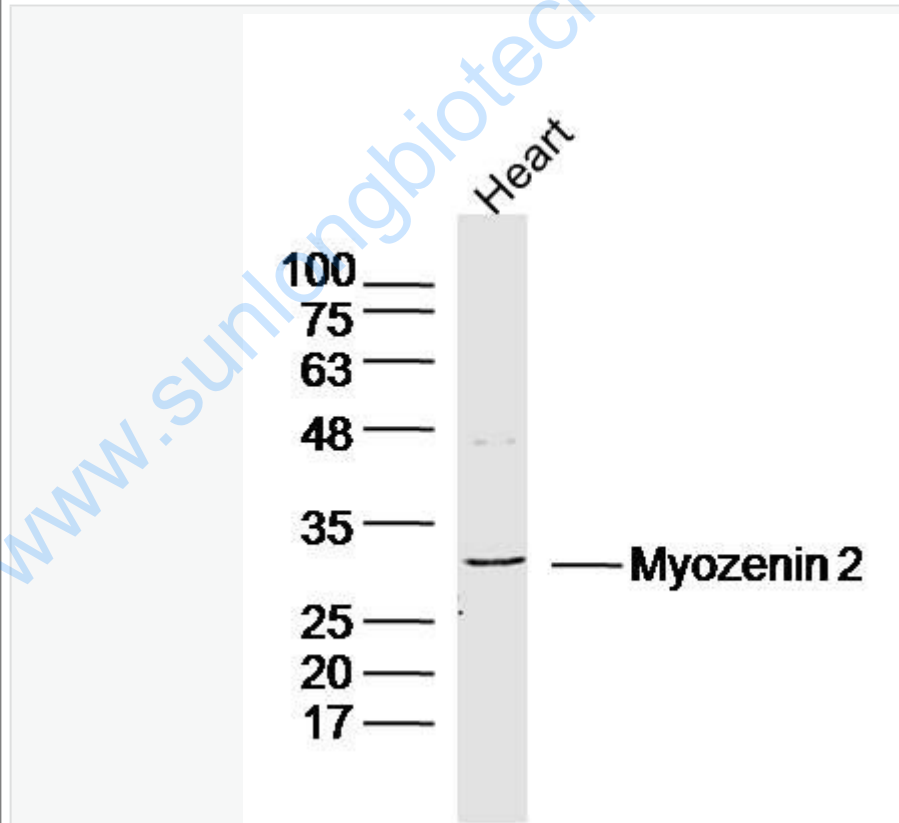
[Omim: 605602](#) Human

[SwissProt: Q5E9V3](#) Cow  
[SwissProt: Q9NPC6](#) Human  
[SwissProt: Q9JJW5](#) Mouse  
[Unigene: 732122](#) Human  
[Unigene: 141157](#) Mouse  
[Unigene: 12931](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample: Heart (Mouse) Lysate at 40 ug

Primary: Anti- Myozenin 2 (SL18975R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

	<p>Predicted band size: 30kD</p>
	<p>Observed band size: 30kD</p>

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