

**MYOZ1 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP5248c****Specification**

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**MYOZ1 Antibody (Center) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">Q9NP98</a>
Other Accession	<a href="#">Q4PS85</a> , <a href="#">Q9JK37</a>
Reactivity	Human, Mouse
Predicted	Pig
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	31745
Antigen Region	40-69

**MYOZ1 Antibody (Center) - Additional Information****Gene ID** 58529**Other Names**

Myozenin-1, Calsarcin-2, Filamin-, actinin- and telethonin-binding protein, Protein FATZ, MYOZ1  
([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=13752](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=13752))  
target="\_blank">HGNC:13752</a>)

**Target/Specificity**

This MYOZ1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 40-69 amino acids from the Central region of human MYOZ1.

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

MYOZ1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**MYOZ1 Antibody (Center) - Protein Information**

**Name** MYOZ1 ([HGNC:13752](#))

**Function** Myozenins may serve as intracellular binding proteins involved in linking Z-disk 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.

**Cellular Location**

Nucleus. Cell projection, pseudopodium. Note=Localized to the nucleus and pseudopodia of undifferentiated cells and detected throughout the myotubes of differentiated cells Colocalizes with ACTN2, FLNC and MYOT at the Z-lines of skeletal muscle

**Tissue Location**

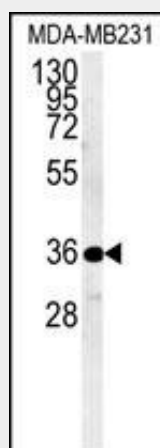
Expressed primarily in skeletal muscle. Detected at lower levels in heart, prostate and pancreas

**MYOZ1 Antibody (Center) - Protocols**

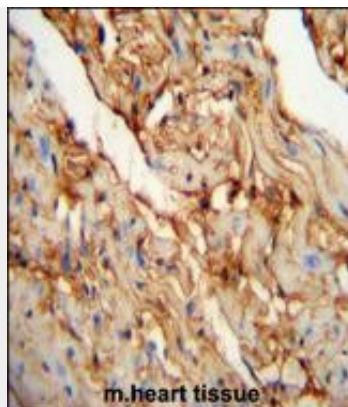
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

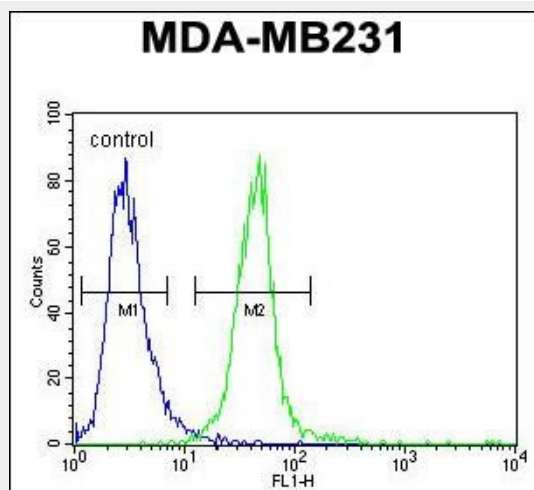
**MYOZ1 Antibody (Center) - Images**



Western blot analysis of MYOZ1 Antibody (Center) (Cat. #AP5248c) in MDA-MB231 cell line lysates (35ug/lane).MYOZ1 (arrow) was detected using the purified Pab.



MYOZ1 Antibody (Center) (Cat. #AP5248c) immunohistochemistry analysis in formalin fixed and paraffin embedded mouse heart tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the MYOZ1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



MYOZ1 Antibody (Center) (Cat. #AP5248c) flow cytometric analysis of MDA-MB231 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### **MYOZ1 Antibody (Center) - Background**

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

### **MYOZ1 Antibody (Center) - References**

Aurino, S., et al. Acta Myol 27, 90-97 (2008) Posch, M.G., et al. Mol. Genet. Metab. 91(2):207-208(2007) Arola, A.M., et al. Mol. Genet. Metab. 90(4):435-440(2007)