10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MYOZ1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5248c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q9NP98
Other Accession	Q4PS85, Q9JK37
Reactivity	Human, Mouse
Predicted	Pig, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB30018
Calculated MW	31745
Antigen Region	40-69

Additional Information

Gene ID	58529
Other Names	Myozenin-1, Calsarcin-2, Filamin-, actinin- and telethonin-binding protein, Protein FATZ, MYOZ1 (HGNC:13752)
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~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
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.

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

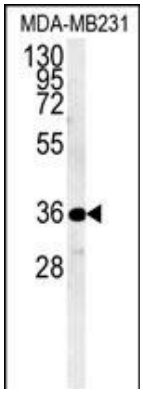
Background

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.

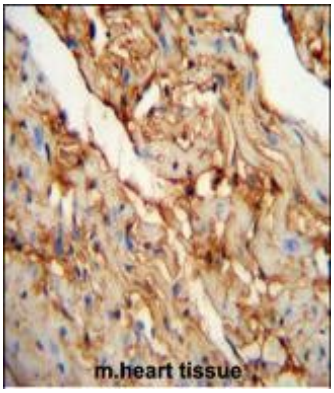
References

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)

Images

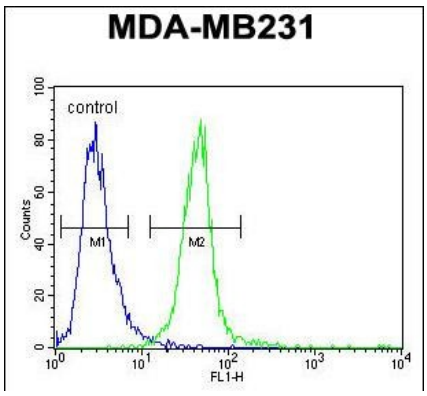


Western blot analysis of MYOZ1 Antibody (Center) (Cat. #AP5248c) in MDA-MB231 cell line lysates (35ug/lane).MYOZ1 (arrow) was detected using the purified Pab.



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.