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

Myozenin 1 Rabbit pAb

Catalog # AP99190

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9NP98
Other Accession	Q9NP98
Reactivity	Rat, Human
Predicted	Pig, Mouse, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31745
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Myozenin 1
Epitope Specificity	1-100/299
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the myozenin family.
SUBUNIT	Interacts with ACTN2, ACTN3, FLNA, FLNB, FLNC, LDB3, PPP3CA and TCAP. Interacts via its C-terminal region with MYOT.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. MYOZ (Myozenin 1) plays an important role in the modulation of calcineurin signaling. MYOZ1 may play a role in myofibrillogenesis. MYOZ1 interacts with ACTN2, ACTN3, FLNA, FLNB, FLNC, LDB3, PPP3CA and TCAP and interacts via its C-terminal region with MYOT. MYOZ1 is localized to the nucleus and pseudopodia of undifferentiated cells and detected throughout the myotubes of differentiated cells. MYOZ1 colocalizes with ACTN2, FLNC and MYOT at the Z-lines of skeletal muscle. MYOZ1 is expressed primarily in skeletal muscle and specifically enriched in the gastrocnemius, which is composed predominantly of fast-twitch muscle fibers.

Additional Information

Gene ID	58529
Other Names	CS-2; FATZ; MYOZ; 2310001N11Rik; MYOZ1_HUMAN; MYOZ1; Calsarcin-2; Filamin-, actinin- and telethonin-binding protein; Protein FATZ; MYOZ1_MOUSE; myozenin 1; myozenin
Dilution	IHC-P=1:400-800,IHC-F=1:400-800,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

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

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