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MYOT Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17231c

Product Information

Application	WB, E
Primary Accession	Q9UBF9
Other Accession	NP_001129412.1, NP_006781.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36975
Calculated MW	55395
Antigen Region	127-155

Additional Information

Gene ID	9499
Other Names	Myotilin, 57 kDa cytoskeletal protein, Myofibrillar titin-like Ig domains protein, Titin immunoglobulin domain protein, MYOT, TTID
Target/Specificity	This MYOT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 127-155 amino acids from the Central region of human MYOT.
Dilution	WB~~1:1000 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	MYOT Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MYOT
Synonyms	TTID
Function	Component of a complex of multiple actin cross-linking proteins. Involved

	in the control of myofibril assembly and stability at the Z lines in muscle cells.
Cellular Location	Cell membrane, sarcolemma. Cytoplasm, cytoskeleton. Cytoplasm, myofibril, sarcomere, Z line. Note=Sarcomeric, also localized to the sarcolemma (PubMed:10369880). Colocalizes with MYOZ1 at the Z-lines in skeletal muscle (PubMed:16076904).
Tissue Location	Expressed in skeletal muscle (at protein level). Expressed in skeletal muscle, heart, bone marrow and thyroid gland

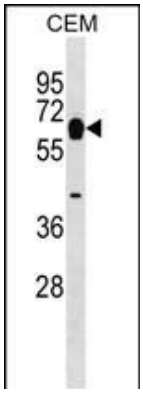
Background

This gene encodes a cystoskeletal protein which plays a significant role in the stability of thin filaments during muscle contraction. This protein binds F-actin, crosslinks actin filaments, and prevents latrunculin A-induced filament disassembly. Mutations in this gene have been associated with limb-girdle muscular dystrophy and myofibrillar myopathies. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined.

References

Bailey, S.D., et al. Diabetes Care (2010) In press :
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Shalaby, S., et al. J. Neuropathol. Exp. Neurol. 68(6):701-707(2009)
Heikkinen, O., et al. J. Biomol. NMR 44(2):107-112(2009)
Claeys, K.G., et al. Acta Neuropathol. 117(3):293-307(2009)

Images



MYOT Antibody (Center) (Cat. #AP17231c) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the MYOT antibody detected the MYOT protein (arrow).