

MYOT Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP17231c

Specification

MYOT Antibody (Center) - Product Information

Application WB,E
Primary Accession Q9UBF9

Other Accession <u>NP_001129412.1</u>, <u>NP_006781.1</u>

Reactivity
Host
Clonality
Polyclonal
Isotype
Calculated MW
Antigen Region

Human
Rabbit
Polyclonal
Rabbit IgG
127-155

MYOT Antibody (Center) - 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.

MYOT Antibody (Center) - 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

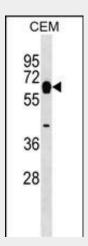
Expressed in skeletal muscle (at protein level). Expressed in skeletal muscle, heart, bone marrow and thyroid gland

MYOT Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

MYOT Antibody (Center) - 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).

MYOT Antibody (Center) - 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





Tel: 858.875.1900 Fax: 858.875.1999

alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined.

MYOT Antibody (Center) - 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)