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TMOD1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP16327c

Specification

TMOD1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession P28289

TMOD1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 7111

Other Names
Tropomodulin-1, Erythrocyte tropomodulin, E-Tmod, TMOD1, D9S57E, TMOD

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TMOD1 Antibody (Center) Blocking Peptide - Protein Information

Name TMOD1

Synonyms D9S57E, TMOD

Function
Blocks the elongation and depolymerization of the actin filaments at the pointed end. The Tmod/TM complex contributes to the formation of the short actin protofilament, which in turn defines the geometry of the membrane skeleton. May play an important role in regulating the organization of actin filaments by preferentially binding to a specific tropomyosin isoform at its N-terminus.

Cellular Location
Cytoplasm, cytoskeleton. Note=In myofibrils with sarcomeric structure, localizes to the pointed end of actin thin filaments (PubMed:25250574).

Tissue Location
Highly expressed in the erythrocyte, heart and skeletal muscle

TMOD1 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

TMOD1 Antibody (Center) Blocking Peptide - Images

TMOD1 Antibody (Center) Blocking Peptide - Background

TMOD1 is a member of the tropomodulin family. Theencoded protein is an actin-capping protein that regulatestropomyosin by binding to its N-terminus, inhibitingdepolymerization and elongation of the pointed end of actinfilaments and thereby influencing the structure of the erythrocytemembrane skeleton. Multiple transcript variants encoding the sameprotein have been found for this gene.

TMOD1 Antibody (Center) Blocking Peptide - References

Olsen, J.V., et al. Cell 127(3):635-648(2006)Kong, K.Y., et al. J. Biol. Chem. 281(14):9589-9599(2006)Vera, C., et al. Arch. Biochem. Biophys. 444(2):130-138(2005)Pawlak, G., et al. Int. J. Cancer 110(3):368-373(2004)Rho, S.B., et al. FEBS Lett. 557 (1-3), 57-63 (2004) :