

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

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. The encoded protein is an actin-capping protein that regulates tropomyosin by binding to its N-terminus, inhibiting depolymerization and elongation of the pointed end of actin filaments and thereby influencing the structure of the erythrocyte membrane skeleton. Multiple transcript variants encoding the same protein 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) :