

TMOD1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16327c**Specification**

TMOD1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	P28289
Other Accession	A0JNC0 , NP_001159588.1 , NP_003266.1
Reactivity	Human
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	40569
Antigen Region	170-198

TMOD1 Antibody (Center) - Additional Information**Gene ID** 7111**Other Names**

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

Target/Specificity

This TMOD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 170-198 amino acids from the Central region of human TMOD1.

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

TMOD1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

TMOD1 Antibody (Center) - Protein Information**Name** TMOD1

Synonyms D9S57E, TMOD

Function Blocks the elongation and depolymerization of the actin filaments at the pointed end (PubMed:[38168645](#)). 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, PubMed:38168645).

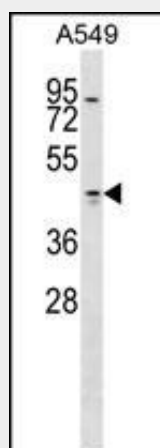
Tissue Location

Highly expressed in the erythrocyte, heart and skeletal muscle

TMOD1 Antibody (Center) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TMOD1 Antibody (Center) - Images

TMOD1 Antibody (Center) (Cat. #AP16327c) western blot analysis in A549 cell line lysates (35ug/lane). This demonstrates the TMOD1 antibody detected the TMOD1 protein (arrow).

TMOD1 Antibody (Center) - 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) - 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) :