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Tropomodulin 1 Rabbit pAb

Catalog # AP98421

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	P28289
Other Accession	P28289
Predicted	Rat, Pig, Human, Mouse, Rabbit, Zebrafish, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40569
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Tropomodulin 1
Epitope Specificity	21-120/359
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the tropomodulin family.
SUBUNIT	Binds to the N-terminus of isoforms 2/3 of TPM3 and to actin.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes 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. [provided by RefSeq, Oct 2009]

Additional Information

Gene ID	7111
Other Names	D9S57E; ETMOD; TMOD; TMOD1_HUMAN; TMOD1; Erythrocyte tropomodulin (E-Tmod); tropomodulin 1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.