



Rabbit Anti-Tropomodulin 1 antibody

SL17154R

Product Name:	Tropomodulin 1
Chinese Name:	原肌球蛋白调节蛋白1抗体
Alias:	D9S57E; E Tmod; E tropomodulin; E-Tmod; Erythrocyte tropomodulin; ETMOD; MGC124125; MGC124126; OTTHUMP00000021743; TMOD; Tmod1; TMOD1 protein; TMOD1_HUMAN; Tropomodulin 1; Tropomodulin-1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Zebrafish,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	41kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Tropomodulin 1:21-120/359
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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]

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.

Subunit:

Binds to the N-terminus of isoforms 2/3 of TPM3 and to actin.

Subcellular Location:

Cytoplasm > cytoskeleton.

Tissue Specificity:

Highly expressed in the erythrocyte, heart and skeletal muscle.

Similarity:

Belongs to the tropomodulin family.

SWISS:

P28289

Gene ID:

7111

Database links:

[Entrez Gene: 7111](#) Human

[Omim: 190930](#) Human

[SwissProt: P28289](#) Human

[Unigene: 404289](#) Human

[Unigene: 494595](#) Human

[Unigene: 723236](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

