

Rabbit TPM1 Polyclonal Antibody | anti-TPM1 antibody

TPM1 Polyclonal Antibody

CATALOG # AAA37156	HOST Rabbit	APPLICATIONS Immunofluorescence, Immunohistochemistry, Western Blot
------------------------------	-----------------------	---

PRODUCT SYNONYMS

TPM1; Polyclonal Antibody; TPM1 Polyclonal Antibody; CMH3; TMSA; CMD1Y; C15orf13; HTM-alpha; anti-TPM1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity Purification
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Concentration	1mg/ml (varies by lot)
Sequence Length	284
Applicable Applications for anti-TPM1 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Species reactivity/Cross reactivity	Human, Mouse, Rat, Zebrafish
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-245 of human Tropomyosin 1 (NP_001018008.1)
Preparation and Storage	Store at -20 degree C (regular) or -80 degree C (long term). Avoid freeze / thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin embedded human uterus using Tropomyosin 1 antibody (AAA37156) at dilution of 1:100 (40x lens).



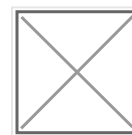
IHC (Immunohistochemistry)

Immunohistochemistry of paraffin embedded human appendix using Tropomyosin 1 antibody (AAA37156) at dilution of 1:100 (40x lens).



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin embedded human lung using Tropomyosin 1 antibody (AAA37156) at dilution of 1:100 (40x lens).



IF (Immunofluorescence)

Immunofluorescence analysis of HeLa cells using TPM1 antibody. Blue: DAPI for nuclear staining.



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using TPM1 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-TPM1 antibody	Tropomyosin-1 (TPM1) belongs to the high molecular weight members of tropomyosin family (1,2). The protein exists in an alpha-helical coiled-coil conformation and binds multiple acting monomers in a tight manner to stabilize and regulate the actin filament (3). Tropomyosins fulfill functions in muscle and non-muscle cells. In muscle cells, tropomyosins associate with the troponin complex and play a central role in the calcium-dependent regulation of striated muscle contraction in vertebrates. In non-muscle cells, tropomyosins are implicated in the formation and stabilization of cytoskeletal actin filaments to ensure normal cellular processes (1,2). Mutations of tropomyosin-1 have been reported as a cause of dilated cardiac myopathies (4). Tropomyosin-1 also functions as a tumor suppressor, and many malignant tumors demonstrate downregulation of tropomyosin-1 expression (5-8). Tropomyosin-1 is phosphorylated at Ser283 through the Erk/DAPK pathway, which promotes stress fiber formation in response to oxidative stress (9-10).
Product Categories/Family for anti-TPM1 antibody	Polyclonal

NCBI AND UNIPROT INFORMATION

NCBI GI #	136092
NCBI GeneID	7168
UniProt Accession #	P09493; P09494; P10469; Q6DV89; Q6DV90; Q7Z6L8; Q86W64; Q96IK2; B7Z5T7; D9YZV2; D9YZV3; D9YZV8
Molecular Weight	Observed MW: 36kDa Calculated MW: 26kDa/28kDa/32kDa
NCBI Official Full Name	Tropomyosin alpha-1 chain
NCBI Official Synonym Full Names	tropomyosin 1 (alpha)
NCBI Official Symbol	TPM1
NCBI Official Synonym Symbols	CMH3; TMSA; CMD1Y; LVNC9; C15orf13; HTM-alpha
NCBI Protein Information	tropomyosin alpha-1 chain; alpha-tropomyosin; sarcomeric tropomyosin kappa; cardiomyopathy, hypertrophic 3
UniProt Protein Name	Tropomyosin alpha-1 chain
UniProt Gene Name	TPM1
UniProt Synonym Gene Names	C15orf13; TMSA
UniProt Entry Name	TPM1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.