

Rabbit TPM1 Polyclonal Antibody | anti-TPM1 antibody

TPM1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA306872	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot

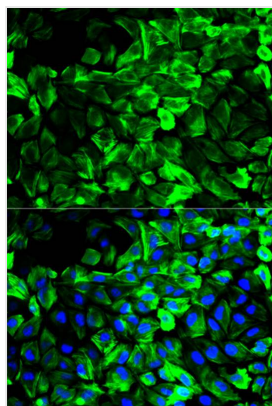
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

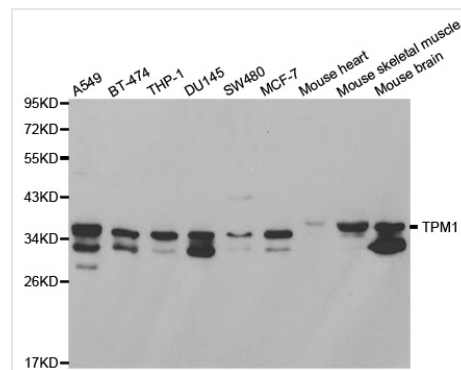
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Specificity	The antibody detects endogenous level of total TPM1 protein.
Purity/Purification	Antibodies were purified by affinity purification using immunogen.
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	284
Applicable Applications for anti-TPM1 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human TPM1.
Target Name	TPM1
Preparation and Storage	Store at -20 degree C

IMAGES



IF (Immunofluorescence)

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



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using TPM1 antibody.

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	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	27597085
NCBI GeneID	7168
NCBI Accession #	NP_000357.3
NCBI GenBank Nucleotide #	NM_000366.5
UniProt Accession #	P09493; P09494; P10469; Q6DV89; Q6DV90; Q7Z6L8; Q86W64; Q96IK2; B7Z5T7; D9YZV2; D9YZV3; D9YZV8
Molecular Weight	32,866 Da
NCBI Official Full Name	tropomyosin alpha-1 chain isoform Tpm1.5cy
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
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.