

Rabbit TPM3 Polyclonal Antibody | anti-TPM3 antibody

TPM3 Antibody

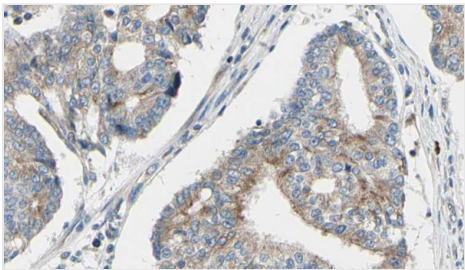
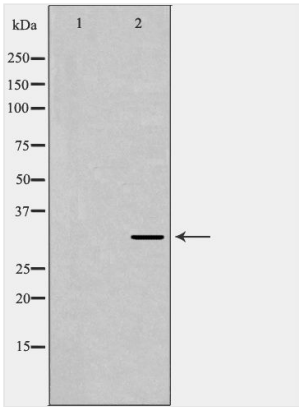
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326114	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

TPM3; Polyclonal Antibody; TPM3 Antibody; Alpha tropomyosin 3; Alpha tropomyosin slow skeletal; CFTD; Cytoskeletal tropomyosin TM30; FLJ41118; gamma TM; Gamma tropomyosin; Gamma-tropomyosin; Heat stable cytoskeletal protein 30 kDa; hscp30; hTM30nm; hTM5; hTMnm; MGC102590; MGC14582; MGC3261; MGC72094; NEM1; OK/SW-cl.5; OTTHUMP00000034019; OTTHUMP00000034171; OTTHUMP00000034172; TM 5; TM-5; TM3; TM30; TM30nm; TM5; Tm5NM; Tpm 5; TPM3/NTRK1 FUSION GENE; INCLUDED; TPM3_HUMAN; Tpm5; TPMSk3; TRK; TRK ONCOGENE; Trop 5; Tropomyosin 3; Tropomyosin 3 gamma; Tropomyosin 5; Tropomyosin alpha 3 chain; Tropomyosin alpha-3 chain; Tropomyosin gamma; Tropomyosin-3; Tropomyosin-5; anti-TPM3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	TPM3 antibody detects endogenous levels of total TPM3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	248
Applicable Applications for anti-TPM3 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human TPM3
Subcellular Location	Cytoplasm > Cytoskeleton.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA326114 at 1/100 staining Human prostate tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of 293T using TPM3 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-TPM3 antibody

Description: This gene encodes a member of the tropomyosin family of actin-binding proteins involved in the contractile system of striated and smooth muscles and the cytoskeleton of non-muscle cells. Tropomyosins are dimers of coiled-coil proteins that polymerize end-to-end along the major groove in most actin filaments. They provide stability to the filaments and regulate access of other actin-binding proteins. In muscle cells, they regulate muscle contraction by controlling the binding of myosin heads to the actin filament. Mutations in this gene result in autosomal dominant nemaline myopathy, and oncogenes formed by chromosomal translocations involving this locus are associated with cancer. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Function: Binds to actin filaments in muscle and non-muscle cells. Plays a central role, in association with the troponin complex, in the calcium dependent regulation of vertebrate striated muscle contraction. Smooth muscle contraction is regulated by interaction with caldesmon. In non-muscle cells is implicated in stabilizing cytoskeleton actin filaments.

Subunit Structure: Homodimer. Heterodimer of an alpha (TPM1, TPM3 or TPM4) and a beta (TPM2) chain (By similarity). Interacts with TMOD1 (PubMed:8002995).

Similarity: The molecule is in a coiled coil structure that is formed by 2 polypeptide chains. The sequence exhibits a prominent seven-residues periodicity. Belongs to the tropomyosin family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	114155144
NCBI GeneID	7170
NCBI Accession #	NP_001036816.1
NCBI GenBank Nucleotide #	NM_001043351.1
UniProt Accession #	P06753; P12324; Q2QD06; Q5VU58; Q5VU63; Q5VU66; Q5VU71; Q5VU72; Q8TCG3; Q969Q2; Q9NQH8; D3DV71
Molecular Weight	Observed: 33 kDa Predicted: 33 kDa
NCBI Official Full Name	tropomyosin alpha-3 chain isoform Tpm3.2cy
NCBI Official Synonym Full Names	tropomyosin 3
NCBI Official Symbol	TPM3
NCBI Official Synonym Symbols	TM3; TM5; TRK; CFTD; NEM1; TM-5; TM30; CAPM1; TM30nm; TPM3nu; TPMsk3; hscp30; HEL-189; HEL-S-82p; OK/SW-cl.5
NCBI Protein Information	tropomyosin alpha-3 chain

UniProt Protein Name	Tropomyosin alpha-3 chain
UniProt Gene Name	TPM3
UniProt Synonym Gene Names	hTM5

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/tpm3-antibody-immunohistochemistry-western-blot-elisa/326114>