

Rabbit Tropomyosin 1 Monoclonal Antibody | anti-TPM1 antibody

Tropomyosin 1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA312680	Rabbit	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

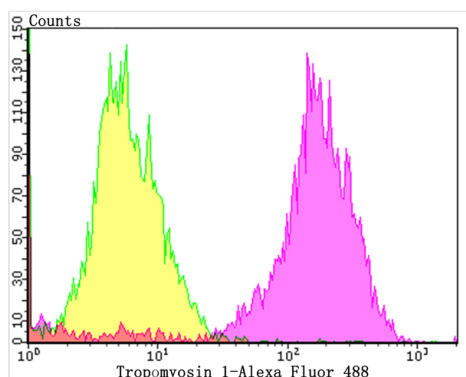
PRODUCT SYNONYMS

Tropomyosin 1; Monoclonal Antibody; Tropomyosin 1 Antibody; AA986836 antibody; AI854628 antibody; Alpha tropomyosin antibody; alpha-TM antibody; Alpha-tropomyosin antibody; C15orf13 antibody; cardiomyopathy; hypertrophic 3 antibody; CMD1Y antibody; CMH3 antibody; HTM alpha antibody; HTM-alpha antibody; OTTHUMP00000163688 antibody; sarcomeric tropomyosin kappa antibody; TM2 antibody; Tmpa antibody; TMSA antibody; Tpm-1 antibody; TPM1 antibody; TPM1_HUMAN antibody; tropomyosin 1 (alpha) antibody; tropomyosin 1 (alpha) isoform 1 antibody; tropomyosin 1 (alpha) isoform 2 antibody; tropomyosin 1 (alpha) isoform 3 antibody; tropomyosin 1 (alpha) isoform 4 antibody; tropomyosin 1 (alpha) isoform 5 antibody; tropomyosin 1 (alpha) isoform 6 antibody; tropomyosin 1 (alpha) isoform 7 antibody; Tropomyosin 1 antibody; Tropomyosin alpha 1 chain antibody; Tropomyosin alpha-1 chain antibody; Tropomyosin; skeletal muscle alpha antibody; Tropomyosin-1 antibody; anti-TPM1 antibody

PRODUCT SPECIFICATIONS

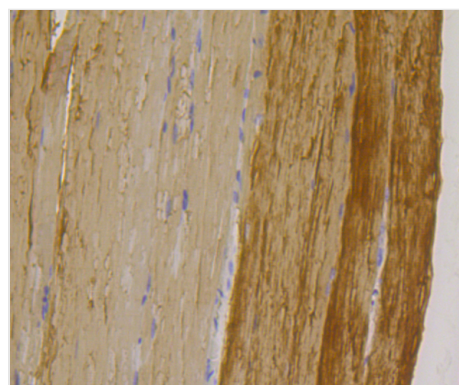
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Clone Number	JG38-66
Purity/Purification	ProA affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-TPM1 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant protein within human Tropomyosin 1 aa 100-300.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.

IMAGES



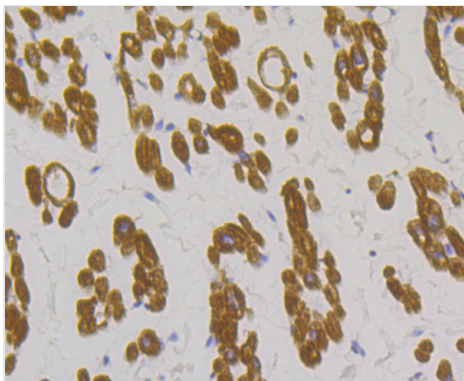
FCM/FACS (Flow Cytometry)

Flow cytometric analysis of MCF-7 cells with Tropomyosin 1 antibody at 1/100 dilution (purple) compared with an unlabelled control (cells without incubation with primary antibody; yellow). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.



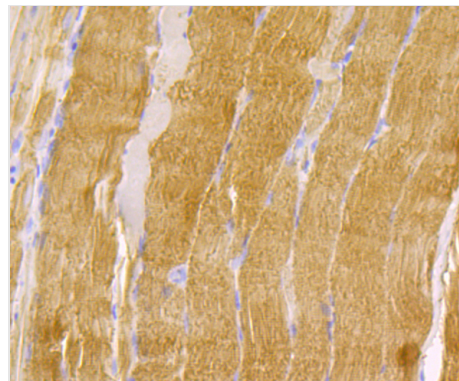
IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue using anti-Tropomyosin 1 antibody. Counter stained with hematoxylin.



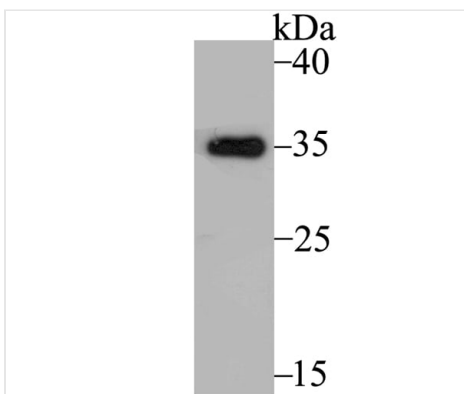
IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human heart tissue using anti-Tropomyosin 1 antibody. Counter stained with hematoxylin.



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded rat smooth muscle tissue using anti-Tropomyosin 1 antibody. Counter stained with hematoxylin.



WB (Western Blot)

Western blot analysis of Tropomyosin 1 on rat heart tissue using anti-Tropomyosin 1 antibody at 1/1, 000 dilution.

ADDITIONAL INFORMATION

Related Product Information for anti-TPM1 antibody

Tropomyosins are a group of structural proteins. Tropomyosins are present in virtually all eukaryotic cells, both muscle and non-muscle, where they bind Actin filaments and function to modulate Actin-Myosin interaction and stabilize Actin filament structure. Tropomyosin alpha is encoded by the TPM1 gene, which maps to human chromosome 15q22.1 and undergoes alternative splicing to generate at least four isoforms, including skeletal muscle (isoform 1), smooth muscle (isoform 2), fibroblast/TM3 (isoform 3) and isoform 4. Tropomyosin beta is encoded by the TPM2 gene, which maps to human chromosome 9p13.3 and undergoes alternative splicing to generate three isoforms, including skeletal muscle (isoform 1), non-muscle/fibroblast TM36/epithelial TMe1 (isoform 2) and non-muscle (isoform 3). Troponin I binds Tropomyosin at a specific region and the association of Tropomyosin-Troponin with Actin filaments may increase the rigidity of Actin filaments. Tropomyosin also interacts with Caldesmon to regulate smooth muscle contraction.

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	284

NCBI Official Full Name	tropomyosin alpha-1 chain isoform 5
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; tropomyosin 1 (alpha) isoform 1; tropomyosin 1 (alpha) isoform 2; tropomyosin 1 (alpha) isoform 3; tropomyosin 1 (alpha) isoform 4; tropomyosin 1 (
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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/tropomyosin-1-antibody-clone-jg38-66-flow-cytometry-immunohistochemistry-western-blot-elisa/312680>