10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-TPM1 / Tropomyosin Antibody

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18577

Product Information

Application	WB, IHC-P, IF
Primary Accession	P09493
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	32709

Additional Information

Gene ID	7168
Alias Symbol	TPM1
Other Names	TPM1, Alpha-tropomyosin, C15orf13, Cardiomyopathy, hypertrophic 3, CMD1Y, CMH3, HTM-alpha, Sarcomeric tropomyosin kappa, TMSA, Tropomyosin, Tropomyosin 1 (alpha), Tropomyosin alpha-1 chain, Tropomyosin-1
Target/Specificity	Human TPM1 / Tropomyosin
Reconstitution & Storage	Affinity purified
Precautions	Anti-TPM1 / Tropomyosin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TPM1
Synonyms	C15orf13, TMSA
Function	Binds to actin filaments in muscle and non-muscle cells (PubMed: 23170982). Plays a central role, in association with the troponin complex, in the calcium dependent regulation of vertebrate striated muscle contraction (PubMed:23170982). Smooth muscle contraction is regulated by interaction with caldesmon. In non-muscle cells is implicated in stabilizing cytoskeleton actin filaments.
Cellular Location	Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:P04692}. Note=Associates with F-actin stress fibers. {ECO:0000250|UniProtKB:P04692}

Tissue Location	Detected in primary breast cancer tissues but undetectable in normal breast tissues in Sudanese patients. Isoform 1 is expressed in adult and fetal skeletal muscle and cardiac tissues, with higher expression levels in the cardiac tissues. Isoform 10 is expressed in adult and fetal cardiac tissues, but not in skeletal muscle. {ECO:0000269|PubMed:15249230, ECO:0000269|Ref.15}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.