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KD-Validated Anti-Tropomyosin 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1732

Product Information

Application	WB, FC, ICC
Primary Accession	P09493
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB2545
Calculated MW	32709
Gene Name	TPM1
Aliases	TPM1; Tropomyosin 1; C15orf13; Cardiomyopathy, Hypertrophic 3; Tropomyosin Alpha-1 Chain; CMH3; TMSA; Chromosome 15 Open Reading Frame 13; Epididymis Secretory Protein Li 265; Sarcomeric Tropomyosin Kappa; Tropomyosin 1 (Alpha); Alpha-Tropomyosin; Tropomyosin-1; HEL-S-265; HTM-Alpha; CMD1Y; LVNC9
Immunogen	A synthesized peptide derived from human Tropomyosin 1

Additional Information

Gene ID	7168
Other Names	Tropomyosin alpha-1 chain, Alpha-tropomyosin, Tropomyosin-1, TPM1, C15orf13, TMSA

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}

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