

Catalog Number	A8723
Synonyms	CMH3; TMSA; CMD1Y; LVNC9; C15orf13; HEL-S-265; HTM-alpha; Tropomyosin 1
Reactivity	Mouse,Rat
Tested applications	ELISA,WB,IHC-P,IF/ICC,IP
Host species	Rabbit
Background	This gene is a member of the tropomyosin family of highly conserved, widely distributed actin-binding proteins involved in the contractile system of striated and smooth muscles and the cytoskeleton of non-muscle cells. Tropomyosin is composed of two alpha-helical chains arranged as a coiled-coil. It is polymerized end to end along the two grooves of actin filaments and provides stability to the filaments. The encoded protein is one type of alpha helical chain that forms the predominant tropomyosin of striated muscle, where it also functions in association with the troponin complex to regulate the calcium-dependent interaction of actin and myosin during muscle contraction. In smooth muscle and non-muscle cells, alternatively spliced transcript variants encoding a range of isoforms have been described. Mutations in this gene are associated with type 3 familial hypertrophic cardiomyopathy and dilated cardiomyopathy 1Y.
Gene Id	7168
Isotype	IgG
Purity	Affinity purification
Swiss Prot	P09493
Recommended dilution	WB,1:500 - 1:2000 IHC-P,1:50 - 1:200 IF/ICC,1:50 - 1:200 IP,0.5µg-4µg antibody for 400µg-600µg extracts of whole cells
CALCULATED MW	33kDa
OBSERVED MW	32、 35、 36、 41kDa
IMMUNOGEN	A synthetic peptide corresponding to a sequence within amino acids 185-284 of human Tropomyosin 1 (P09493).
POSITIVE SAMPLES	Mouse skeletal muscle,Mouse heart,Rat skeletal muscle,Rat heart
CELLULAR LOCALIZATION	Cytoplasm,cytoskeleton,
STORAGE BUFFER	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

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