Tropomyosin α rabbit pAb

Cat#: orb766519 (Manual)

For research use only. Not intended for diagnostic use.

Product Name	Tropomyosin α rabbit pAb
Host species	Rabbit
Applications	WB;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human Tropomyosin alpha. AA range:40-89
Specificity	Tropomyosin α Polyclonal Antibody detects endogenous levels of Tropomyosin α protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Tropomyosin alpha-1 chain
Gene Name	TPM1
Cellular localization	Cytoplasm, cytoskeleton . Associates with F-actin stress fibers. .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal

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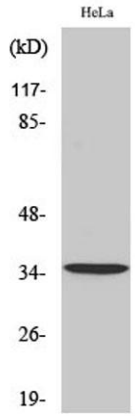
Concentration	1 mg/ml
Observed band	35kD
Human Gene ID	7168
Human Swiss-Prot Number	P09493
Alternative Names	TPM1; C15orf13; TMSA; Tropomyosin alpha-1 chain; Alpha-tropomyosin; Tropomyosin-1
Background	This gene is a member of the tropomyosin family of highly conserved, widely distributed actin-binding 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. [provided by



Western Blot analysis of various cells using Tropomyosin α Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000

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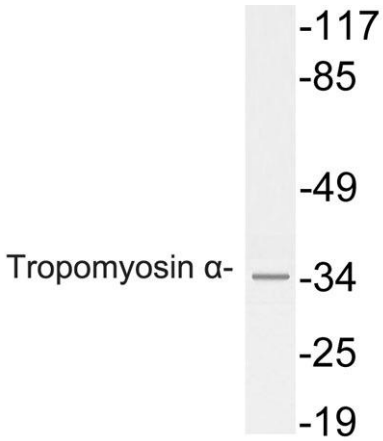

Western blot analysis of lysate from HeLa cells, using Tropomyosin α antibody.

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