

## Tropomyosin $\alpha$ rabbit pAb

**Cat#: orb771733 (Manual)**

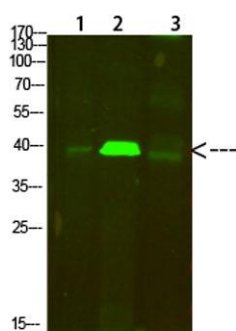
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<b>Product Name</b>	Tropomyosin $\alpha$ rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	WB 1:500-2000, ELISA 1:10000-20000
<b>Immunogen</b>	Synthesized peptide derived from human Tropomyosin $\alpha$ . at AA range: 101-150
<b>Specificity</b>	Tropomyosin $\alpha$ Polyclonal Antibody detects endogenous levels of Tropomyosin $\alpha$
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Tropomyosin $\alpha$
<b>Gene Name</b>	TPM1
<b>Cellular localization</b>	Cytoplasm, cytoskeleton . Associates with F-actin stress fibers. .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal

<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	38kD
<b>Human Gene ID</b>	7168
<b>Human Swiss-Prot Number</b>	P09493
<b>Alternative Names</b>	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 1,mouse-lung 2,mouse-brain 3,mouse-spleen cells using primary antibody diluted at 1:500(4°C overnight). Secondary antibody:Goat Anti-rabbit IgG IRDye 800( diluted at 1:5000, 25°C, 1 hour)