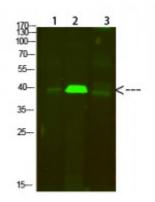


Anti-Tropomyosin alpha antibody





Description Rabbit polyclonal to Tropomyosin alpha.

Model STJ99331

Host Rabbit

Reactivity Human, Mouse, Rat

Applications ELISA, WB

Immunogen Synthesized peptide derived from human Tropomyosin alpha.

Immunogen Region 101-150aa

Gene ID <u>7168</u>

Gene Symbol TPM1

Dilution range WB 1:500-2000ELISA 1:10000-20000

Specificity Tropomyosin alpha Polyclonal Antibody detects endogenous levels of

Tropomyosin alpha.

Tissue Specificity 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.

Purification The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Note For Research Use Only (RUO).

Protein Name Tropomyosin alpha-1 chain Alpha-tropomyosin Tropomyosin-1

Molecular Weight 38kDa

Clonality Polyclonal

Conjugation Unconjugated

Isotype IgG

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Concentration 1 mg/ml

Storage Instruction Store at -20°C, and avoid repeat freeze-thaw cycles.

Database Links HGNC:12010OMIM:115196

Alternative Names Tropomyosin alpha-1 chain Alpha-tropomyosin Tropomyosin-1

Function Binds to actin filaments in muscle and non-muscle cells. Plays a central role,

in association with the troponin complex, in the calcium dependent regulation of vertebrate striated muscle contraction. Smooth muscle contraction is regulated by interaction with caldesmon. In non-muscle cells is implicated in

stabilizing cytoskeleton actin filaments.

Sequence and Domain Family The molecule is in a coiled coil structure that is formed by 2 polypeptide

chains. The sequence exhibits a prominent seven-residues periodicity.

Cellular Localization Cytoplasm, cytoskeleton.

Post-translational Phosphorylated at Ser-283 by DAPK1 in response to oxidative stress and this

Modifications phosphorylation enhances stress fiber formation in endothelial cells.

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