

A1157

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Tropomyosin 1 Rabbit pAb

Catalog No.: A1157

6 Publications

Basic Information

Observed MW

36kDa

Calculated MW

33kDa

Category

Mouse Monoclonal Antibody

Applications

WB, IHC-P, IF/ICC, ELISA

Cross-Reactivity

Human, Mouse

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.

Recommended Dilutions

WB	1:500 - 1:2000
IF/ICC	1:50 - 1:200
IHC-P	1:50 - 1:200

Immunogen Information

Gene ID

7168

Swiss Prot

P09493

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-245 of human Tropomyosin 1 (NP_001018008.1).

Synonyms

CMH3; TMSA; CMD1Y; LVNC9; C15orf13; HEL-S-265; HTM-alpha; Tropomyosin 1

Contact



www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

Purification

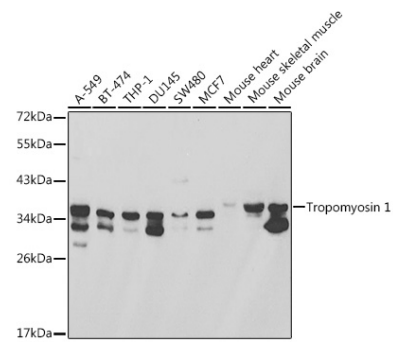
Affinity purification

Storage

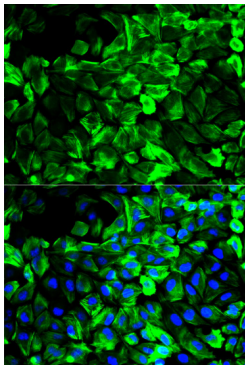
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

Validation Data



Western blot analysis of various lysates using Tropomyosin 1 Rabbit pAb (A1157) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.



Immunofluorescence analysis of HeLa cells using Tropomyosin 1 Rabbit pAb (A1157).
Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.