

Cardiac troponin T (TNNT2) Rabbit mAb

Catalog No.: A4914

Recombinant

11 Publications

Basic Information

Observed MW

36kDa

Calculated MW

36kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P, IF/ICC

Cross-Reactivity

Mouse, Rat

CloneNo number

ARC1242

Background

This gene encodes the cardiac isoform of troponin T. The encoded protein is the tropomyosin-binding subunit of the troponin complex, which is located on the thin filament of striated muscles and regulates muscle contraction in response to alterations in intracellular calcium ion concentration. Mutations in this gene have been associated with familial hypertrophic cardiomyopathy as well as with dilated cardiomyopathy.

Recommended Dilutions

| | |
|--------|-----------------|
| WB | 1:2000 - 1:5000 |
| IHC-P | 1:50 - 1:200 |
| IF/ICC | 1:50 - 1:200 |

Immunogen Information

Gene ID

7139

Swiss Prot

P45379

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 199-298 of human Cardiac troponin T (TNNT2) (P45379).

Synonyms

CMH2; RCM3; TnTC; cTnT; CMD1D; CMPD2; LVNC6; Cardiac troponin T (TNNT2)

Contact

| | |
|---|---------------------------|
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Product Information

Source

Rabbit

Isotype

IgG

Purification

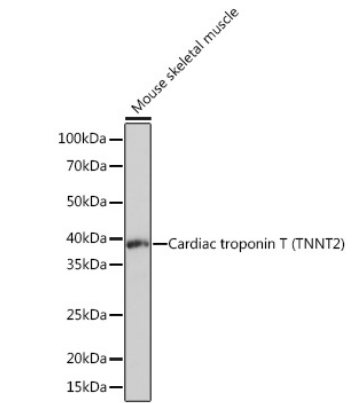
Affinity purification

Storage

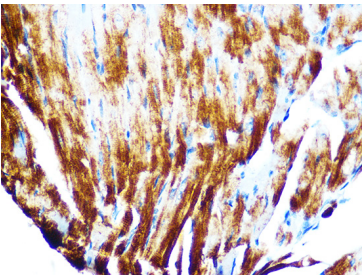
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

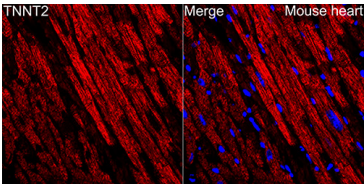
Validation Data



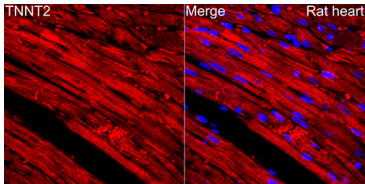
Western blot analysis of extracts of Mouse skeletal muscle, using Cardiac troponin T (TNNT2) Rabbit mAb (A4914) at 1:10000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



Immunohistochemistry analysis of paraffin-embedded mouse heart using Cardiac troponin T (TNNT2) Rabbit mAb (A4914) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunofluorescence analysis of mouse heart using Cardiac troponin T (TNNT2) Rabbit mAb (A4914) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of rat heart using Cardiac troponin T (TNNT2) Rabbit mAb (A4914) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.