

Product datasheet for TA332463

Troponin C1 (TNNC1) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: ICC/IF, WB

Recommended Dilution: WB 1:500 - 1:2000:IF 1:50- 1:200

Reactivity: Mouse, Rat

Host: Rabbit

Isotype: lgG

Clonality: Polyclonal

Immunogen: Recombinant protein of human TNNC1

Formulation: Store at -20°C (regular) and -80°C (long term). Avoid freeze / thaw cycles. Buffer: PBS with

0.02% sodium azide, 50% glycerol, pH7.3.

Concentration: lot specific

Purification: Affinity purification

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size:

Gene Name: troponin C1, slow skeletal and cardiac type

Database Link: NP 003271

Entrez Gene 21924 MouseEntrez Gene 290561 Rat

P63316

Background: Troponin, working in conjunction with tropomyosin, functions as a molecular switch,

regulating muscle contraction in response to changes in the intracellular Ca2+ concentration.

Troponin consists of three subunits: the Ca2+-binding subunit troponin C (TnC), the

tropomyosin-binding subunit troponin T (TnT), and the inhibitory subunit troponin I (TnI) (1). In response to Î²-adrenergic stimulation of the heart, Ser23 and Ser24 of Tnl (cardiac) are phosphorylated by PKA and PKC. This phosphorylation stimulates a conformational change of the regulatory domain of TnC, reduces the association between TnI and TnC, and decreases

myofilament Ca2+ sensitivity by reducing the Ca2+ binding affinity of TnC (1-3).



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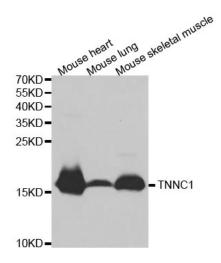


Synonyms: CMD1Z; CMH13; TN-C; TNC; TNNC

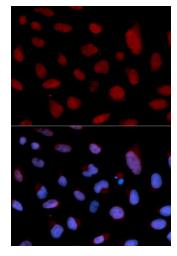
Protein Pathways: Calcium signaling pathway, Cardiac muscle contraction, Dilated cardiomyopathy,

Hypertrophic cardiomyopathy (HCM)

Product images:



Western blot analysis of extracts of various cell lines, using TNNC1 antibody.



Immunofluorescence analysis of U2OS cell using TNNC1 antibody. Blue: DAPI for nuclear staining.