

## TNNC1

**Reactivity:** Human Mouse Rat

**Tested applications:** WB IHC IF

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

**Calculated MW:** 18kDa

**Observed MW:** Refer to Figures

**Immunogen:**

Recombinant protein of human TNNC1

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonym:**

CMD1Z; TNC; TNNC;

**Catalog #:** A1927

**Antibody Type:**

Polyclonal Antibody

**Species:** Rabbit

**Gene ID:** 7134

**Isotype:** IgG

**Swiss Prot:** P63316

**Purity:** Affinity purification

For research use only.

**Background:**

Troponin, working in conjunction with tropomyosin, functions as a molecular switch, regulating muscle contraction in response to changes in the intracellular Ca<sup>2+</sup> concentration. Troponin consists of three subunits: the Ca<sup>2+</sup>-binding subunit troponin C (TnC), the tropomyosin-binding subunit troponin T (TnT), and the inhibitory subunit troponin I (TnI) (1). In response to -adrenergic stimulation of the heart, Ser23 and Ser24 of TnI (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 Ca<sup>2+</sup> sensitivity by reducing the Ca<sup>2+</sup> binding affinity of TnC (1-3).

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