

Product Datasheet

Cardiac Troponin T Antibody

Catalog No: CY5670

Reactivity: Human Mouse Rat

Isotype: Rabbit IgG

Applications: WB IHC



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Information

UniProt ID: P45379

All Names: TNNT2 ; Cardiac muscle troponin T; Troponin T, cardiac muscle; troponin T type 2 (cardiac); cTnT; TnTC;

Form: Liquid

Storage instructions: Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

Molecular Wt.: 40 kDa

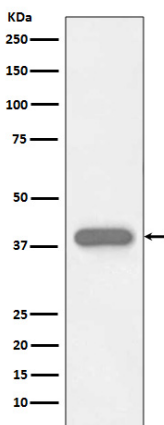
Application

WB: 1:5000~1:20000

IHC: 1:50~1:200

Background

Troponin, working in conjunction with tropomyosin, functions as a molecular switch, regulating muscle contraction in response to changes in the intracellular Ca^{2+} concentration. Troponin consists of three subunits: the Ca^{2+} -binding subunit troponin C (TnC), the tropomyosin-binding subunit troponin T (TnT), and the inhibitory subunit troponin I (TnI) (1). In response to β -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^{2+} sensitivity by reducing the Ca^{2+} binding affinity of TnC (1-3).



Western blot analysis of Troponin T expression in Human fetal heart lysate.

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