



E91126

TNNT2 Polyclonal Antibody

Catalog Number: E91126

Amount: 100ul

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). The tropomyosin binding subunit of the troponin complex TnT exists as different isoforms in slow skeletal muscle (ssTnT/TNNT1), fast skeletal muscle (fsTnT/TNNT3) and in cardiac muscle (cTnT/TNNT2). Each of these may also contain multiple alternatively spliced variants. Assays for measuring serum concentrations of cTnT, as well as cTnI, have been reported for analyzing cardiac injury.

Species: Rabbit

Isotype: IgG

Storage/Stability: Store at -20°C or -80°C . Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

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

Immunogen: Recombinant Protein of human TNNT2

Purification: Affinity purification

Reactivity: H M R

Applications: WB IHC

Molecular Weight: 36kDa

Swiss-Prot No. : P45379

Gene ID: 7139

References: 1. Ward, D.G. et al. (2002) J. Biol. Chem. 277, 41795-41801. 2. Noland, T.A. et al. (1995) J. Biol. Chem. 270, 25445-25454. 3. Gaponenko, V. et al. (1999) J. Biol. Chem. 274, 16681-16684

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