

TNNT2 polyclonal antibody

Catalog: BS61520

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Troponin, working in conjunction with tropomyosin, functions as a molecular switch that regulates 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). 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 Ca²⁺ sensitivity by reducing the Ca²⁺ binding affinity of TnC.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.3.

Molecular Weight:

~ 40 kDa

Swiss-Prot:

P45379

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)

Applications:

WB: 1:500~1:1000

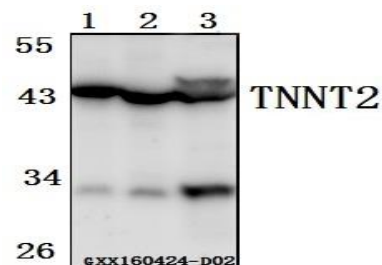
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

TNNT2 polyclonal antibody detects endogenous levels of TNNT2 protein.

DATA:



Western blot (WB) analysis of TNNT2 polyclonal antibody at 1:500 dilution

Lane1: The heart tissue lysate of Mouse(40ug)

Lane2: The heart tissue lysate of Rat(40ug)

Lane3: The fetal heart tissue lysate of Mouse(40ug)

Note:

For research use only, not for use in diagnostic procedure.

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