Data Sheet (Cat.No.TMAC-04072)

Anti-TNNI2 Antibody (1Z708)

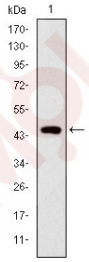
Product Details

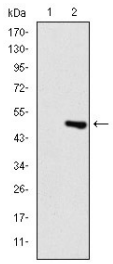
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 21 kDa.
Clone:	1Z708
Purification:	ProA affinity purified

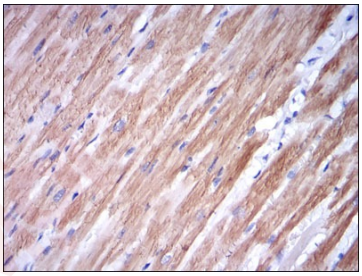
Applications

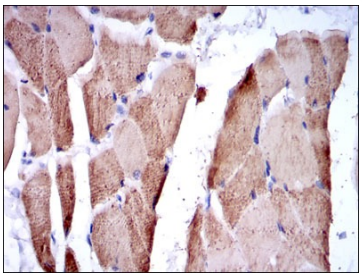
Verified Activity:

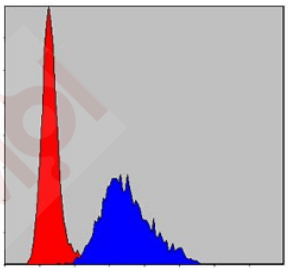
1. Western blot analysis of TNNI2 on human TNNI2 recombinant protein using anti-TNNI2 antibody at 1/1,000 dilution.
2. Western blot analysis of TNNI2 on HEK293 (1) and TNNI2-hIgGFc transfected HEK293 (2) cell lysate using anti-TNNI2 antibody at 1/1,000 dilution.
3. Immunohistochemical analysis of paraffin-embedded human cardiac muscle tissue using anti-TNNI2 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human striated muscle tissue using anti-TNNI2 antibody. Counter stained with hematoxylin.
5. Flow cytometric analysis of NIH/3T3 cells with TNNI2 antibody at 1/100 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red).











Application: FCM,IHC,WB

Recommended: WB: 1:500-1000; IHC: 1:100-200; FCM: 1:100-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P48788

Synonyms: fast skeletal muscle;Troponin I, fast skeletal muscle;Troponin I, fast-twitch isoform;Tnni2

Research Background

Actin is a highly conserved protein that is expressed in all eukaryotic cells. Actin filaments can form both stable and labile structures and are crucial components of microvilli and the contractile apparatus of muscle cells. Myosin is a hexamer of 2 heavy chains (MHC) and 4 light chains (MLC) that interacts with actin to generate the force for diverse cellular movements, including cytokinesis, phagocytosis and muscle contraction. Troponin facilitates the interaction between actin and myosin by binding to calcium. Troponin is made up of at least two subunits, which are skeletal muscle skeletal muscle and slow skeletal muscle. Structures of skeletal muscle troponin are composed of Troponin C (the sensor), Troponin I (the regulator), and Troponin T (the link to the the regulator), and Troponin T C is dumbbell-shaped and has a hydrophobic pocket that increases the contractile force of muscle fibers. Troponin C has 2 isoforms: fast and slow. Fast troponin C has two calci um binding sites while slow / cardiac troponin C has a single calcium binding site.

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