

TNNI2 Antibody

Catalog No: #48458



Package Size: #48458-1 50ul #48458-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	TNNI2 Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	A8-F12
Purification	ProA affinity purified
Applications	WB, IHC, FC
Species Reactivity	Hu
Immunogen Description	Recombinant protein
Other Names	AMCD 2B antibody AMCD2B antibody DA 2B antibody DA2B antibody fast skeletal muscle antibody Fast twitch skeletal muscle troponin I antibody fast-twitch isoform antibody FSSV antibody fsTnI antibody TNNI 2 antibody Tnni2 antibody TNNI2_HUMAN antibody tro antibody Troponin I antibody Troponin I fast skeletal muscle antibody Troponin I fast twitch 2 antibody Troponin I fast twitch isoform antibody Troponin I fast twitch skeletal muscle isoform antibody Troponin I skeletal fast antibody Troponin I type 2 (skeletal fast) antibody Troponin I type 2 antibody
Accession No.	Swiss-Prot#:P48788
Uniprot	P48788
GeneID	7136;
Calculated MW	21 kDa
Formulation	1*TBS (pH7.4), 1%BSA, Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

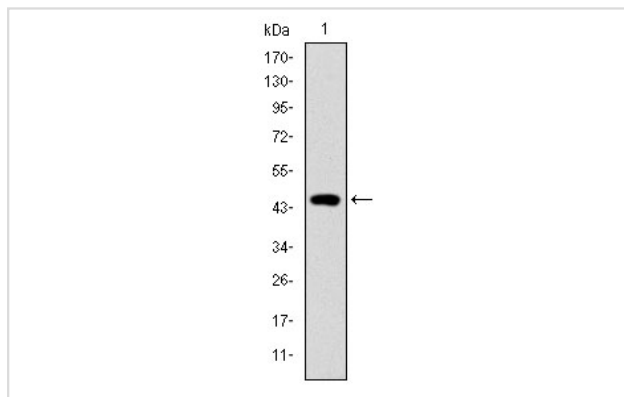
Application Details

WB: 1:500-1:1,000

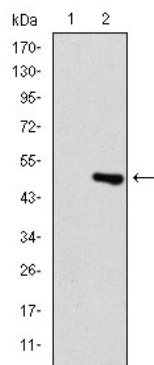
FC: 1:100-1:200IHC: 1:100-1:200

FC: 1:100-1:200

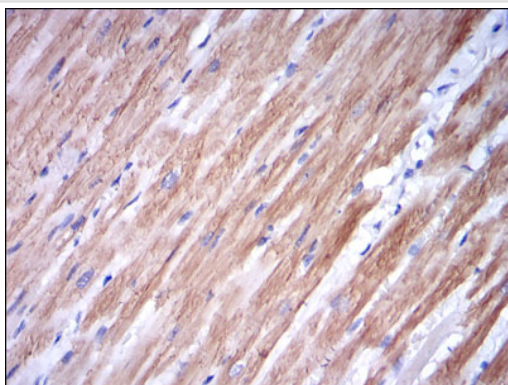
Images



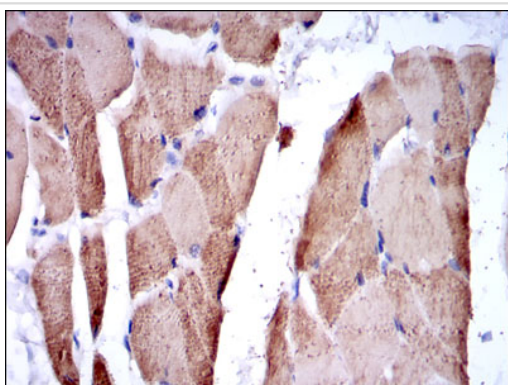
Western blot analysis of TNNI2 on human TNNI2 recombinant protein using anti-TNNI2 antibody at 1/1,000 dilution.



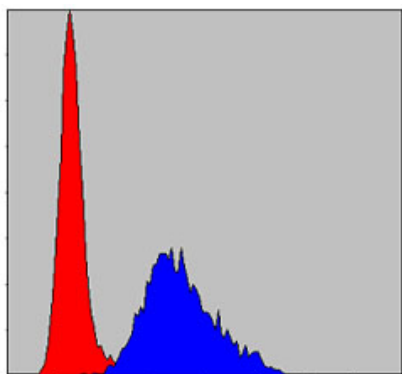
Western blot analysis of TNNI2 on HEK293 (1) and TNNI2-hlgGfc transfected HEK293 (2) cell lysate using anti-TNNI2 antibody at 1/1,000 dilution.



Immunohistochemical analysis of paraffin-embedded human cardiac muscle tissue using anti-TNNI2 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human striated muscle tissue using anti-TNNI2 antibody. Counter stained with hematoxylin.



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).

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 calcium binding sites while slow / cardiac troponin C has a single

calcium binding site.

References

Note: This product is for in vitro research use only