ARG57012
anti-TNNI1 antibody [36E7]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [36E7] recognizes TNNI1
Tested Reactivity	Hu
Tested Application	WB
Host	Mouse
Clonality	Monoclonal
Clone	36E7
Isotype	IgG2b, kappa
Target Name	TNNI1
Species	Human
Immunogen	Recombinant fragment around aa. 1-187 of Human TNNI1.
Conjugation	Un-conjugated
Alternate Names	Troponin I, slow-twitch isoform; SSTNI; TNN1; Troponin I, slow skeletal muscle

Application Instructions

Application table

Application	Dilution
WB	1:500 - 1:5000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

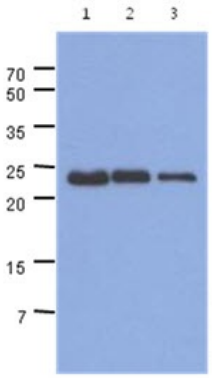
Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 7135 Human Swiss-port # P19237 Human
Gene Symbol	TNNI1
Gene Full Name	troponin I type 1 (skeletal, slow)
Background	Troponin proteins associate with tropomyosin and regulate the calcium sensitivity of the myofibril contractile apparatus of striated muscles. Troponin I (TnI), along with troponin T (TnT) and troponin C (TnC), is one of 3 subunits that form the troponin complex of the thin filaments of striated muscle. TnI is the inhibitory subunit; blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily contains three genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. The TnI-fast and TnI-slow genes are expressed in fast-twitch and slow-twitch skeletal muscle fibers, respectively, while the TnI-cardiac gene is expressed exclusively in cardiac muscle tissue. This gene encodes the Troponin-I-skeletal-slow-twitch protein. This gene is expressed in cardiac and skeletal muscle during early development but is restricted to slow-twitch skeletal muscle fibers in adults. The encoded protein prevents muscle contraction by inhibiting calcium-mediated conformational changes in actin-myosin complexes. [provided by RefSeq, Jul 2008]
Function	Troponin I is the inhibitory subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity. [UniProt]
Calculated Mw	22 kDa

Images



ARG57012 anti-TNNI1 antibody [36E7] WB image

Western blot: 40 µg of Mouse muscle stained with ARG57012 anti-TNNI1 antibody [36E7] at 1) 1:500, 2) 1:1000, and, 3) 1:5000 dilution.