

**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

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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

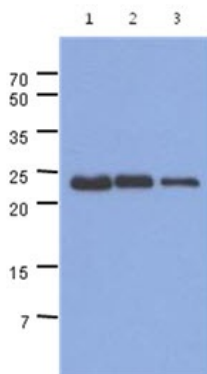
Troponin I is the inhibitory subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity. [UniProt]

Calculated Mw

22 kDa

## Images

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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.