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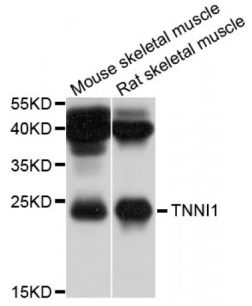
DATASHEET

Troponin I, Slow Skeletal Muscle (TNNI1) Antibody

Catalogue No.:abx003074



Western blot analysis of extracts of various cell lines, using TNNI1 antibody (abx003074) at 1/1000 dilution.

TNNI1 Antibody is a Rabbit Polyclonal antibody against TNNI1. 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.

Target:	TNNI1
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Tested Applications:	WB
Recommended dilutions:	WB: 1/1000 - 1/2000. Optimal dilutions/concentrations should be determined by the end user.
Immunogen:	Recombinant protein of human TNNI1.
Purification:	Affinity purified.
Form:	Liquid
Isotype:	IgG
Conjugation:	Unconjugated

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Storage:	Aliquot and store at -20 °C. Avoid repeated freeze/thaw cycles.
Molecular Weight:	Calculated MW: 21 kDa Observed MW: 22 kDa
Swiss Prot:	P19237
GeneID:	7135
Gene Symbol:	TNNI1
Concentration:	> 1 mg/ml
Buffer:	PBS, pH 7.3, 0.02% sodium azide, 50% glycerol.
Note:	This product is for research use only.