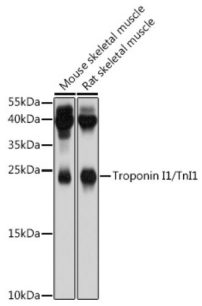
Troponin I, Slow Skeletal Muscle (TNNI1) Antibody

Catalogue No.:abx003074



Western blot analysis of extracts of various cell lines using Troponin I1/TnI1 Antibody (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:	Troponin I, Slow Skeletal Muscle (TNNI1)
Clonality:	Polyclonal
Reactivity:	Mouse, Rat
Tested Applications:	WB
Host:	Rabbit
Recommended dilutions:	WB: 1/1000 - 1/2000. Optimal dilutions/concentrations should be determined by the end user.
Conjugation:	Unconjugated
Immunogen:	Recombinant fusion protein corresponding to human Troponin I1/TnI1
Isotype:	IgG
Form:	Liquid
Purification:	Purified by affinity chromatography.
Storage:	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.

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UniProt Primary AC:	P19237 (UniProt, ExPASy)
Gene Symbol:	TNNI1
GeneID:	7135
NCBI Accession:	NP_003272.3
KEGG:	hsa:7135
String:	9606.ENSP00000354488
Molecular Weight:	Calculated MW: 21 kDa Observed MW: 22 kDa
Buffer:	PBS, pH 7.3, containing 0.01% thiomersal, 50% glycerol.
Concentration:	1 mg/ml
Note:	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

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