

TNNI1 monoclonal antibody, clone 7G2

Catalog # MAB7323

Size 200 ug

Specification

Product Description	Mouse monoclonal antibody raised against full length native TNNI1.
Immunogen	Native purified human TNNI1.
Host	Mouse
Reactivity	Human
Specificity	Troponin I from human skeletal muscle. Cross-reaction of this with cardiac troponin I is less than 1.5%.
Form	Liquid
Isotype	IgG2b
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (0.09% sodium azide)
Storage Instruction	Store at 4°C. Do not freeze.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Enzyme-linked Immunoabsorbent Assay

Gene Info — TNNI1

Entrez GeneID

[7135](#)

Gene Name	TNNI1
Gene Alias	DKFZp451O223, SSTNI, TNN1
Gene Description	troponin I type 1 (skeletal, slow)
Omim ID	191042
Gene Ontology	Hyperlink
Gene Summary	<p>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</p>
Other Designations	OTTHUMP00000033877 OTTHUMP00000033910 slow-twitch skeletal troponin I troponin I, skeletal, slow