

TNNI1/TNNI2 polyclonal antibody

Catalog # PAB19921 Size 150 ug

Specification

Product Description	Rabbit polyclonal antibody raised against native TNNI1/TNNI2.
Immunogen	Native purified TNNI1/TNNI2 from human skeletal muscle.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.5 (0.02% sodium azide, 50% glycerol (v/v))
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Enzyme Immunoassay

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

Gene Info — TNNI2

Entrez GeneID	7136
Gene Name	TNNI2
Gene Alias	AMCD2B, DA2B, FSSV
Gene Description	troponin I type 2 (skeletal, fast)
Omim ID	191043 601680
Gene Ontology	Hyperlink
Gene Summary	<p>This gene encodes a fast-twitch skeletal muscle protein, a member of the troponin I gene family, and a component of the troponin complex including troponin T, troponin C and troponin I subunits. The troponin complex, along with tropomyosin, is responsible for the calcium-dependent regulation of striated muscle contraction. Mouse studies show that this component is also present in vascular smooth muscle and may play a role in regulation of smooth muscle function. In addition to muscle tissues, this protein is found in corneal epithelium, cartilage where it is an inhibitor of angiogenesis to inhibit tumor growth and metastasis, and mammary gland where it functions as a co-activator of estrogen receptor-related receptor alpha. This protein also suppresses tumor growth in human ovarian carcinoma. Mutations in this gene cause myopathy and distal arthrogryposis type 2B. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq]</p>
Other Designations	OTTHUMP00000014141 OTTHUMP00000014142 troponin I fast twitch 2 troponin I, fast-twitch skeletal muscle isoform troponin I, skeletal, fast

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)