

Product datasheet for TP323893L

TNNT3 (NM_001042782) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins Description: Recombinant protein of human troponin T type 3 (skeletal, fast) (TNNT3), transcript variant 4, 1 mg Species: Human **Expression Host:** HEK293T **Expression cDNA Clone** >RC223893 protein sequence Red=Cloning site Green=Tags(s) or AA Sequence: MSDEEVEQVEEQYEEEEEAQEEEEVQEEEKPRPKLTAPKIPEGEKVDFDDIQKKRQNKDLMELQALIDSH FEARKKEEEELVALKERIEKRRAERAEQQRIRAEKERERQNRLAEEKARREEEDAKRRAEDDLKKKKALS SMGANYSSYLAKADQKRGKKQTAREMKKKILAERRKPLNIDHLGEDKLRDKAKELWETLHQLEIDKFEFG EKLKRQKYDITTLRSRIDQAQKHSKKAGTPAKGKVGGRWK **TRTRPLEQKLISEEDLAANDILDYKDDDDKV** C-Myc/DDK Tag: Predicted MW: 29.6 kDa **Concentration:** >0.05 µg/µL as determined by microplate BCA method **Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining **Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol Recombinant protein was captured through anti-DDK affinity column followed by **Preparation:** conventional chromatography steps. Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. Store at -80°C. Storage: Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. RefSeq: NP 001036247 Locus ID: 7140



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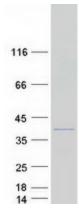
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	TNNT3 (NM_001042782) Human Recombinant Protein – TP323893L
UniProt ID:	<u>P45378</u>
RefSeq Size:	1193
Cytogenetics:	11p15.5
RefSeq ORF:	750
Synonyms:	beta-TnTF; DA2B2; TNTF
Summary:	The binding of Ca(2+) to the trimeric troponin complex initiates the process of muscle contraction. Increased Ca(2+) concentrations produce a conformational change in the troponin complex that is transmitted to tropomyosin dimers situated along actin filaments. The altered conformation permits increased interaction between a myosin head and an actin filament which, ultimately, produces a muscle contraction. The troponin complex has protein subunits C, I, and T. Subunit C binds Ca(2+) and subunit I binds to actin and inhibits actinmyosin interaction. Subunit T binds the troponin complex to the tropomyosin complex and is also required for Ca(2+)-mediated activation of actomyosin ATPase activity. There are 3 different troponin T genes that encode tissue-specific isoforms of subunit T for fast skeletal-,

slow skeletal-, and cardiac-muscle. This gene encodes fast skeletal troponin T protein; also known as troponin T type 3. Alternative splicing results in multiple transcript variants encoding additional distinct troponin T type 3 isoforms. A developmentally regulated switch between fetal/neonatal and adult troponin T type 3 isoforms occurs. Additional splice variants have been described but their biological validity has not been established. Mutations in this gene may cause distal arthrogryposis multiplex congenita type 2B (DA2B). [provided by RefSeq, Oct 2009]

Product images:



Coomassie blue staining of purified TNNT3 protein (Cat# [TP323893]). The protein was produced from HEK293T cells transfected with TNNT3 cDNA clone (Cat# [RC223893]) using MegaTran 2.0 (Cat# [TT210002]).

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