

Product datasheet for TP316642L

TNNT3 (NM_006757) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human troponin T type 3 (skeletal, fast) (TNNT3), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC216642 representing NM_006757 Red=Cloning site Green=Tags(s)

MSDEEVEQVEEQYEEEEEAQEEEEVQEDTAEEDAEEEEKPRPKLTAPKIPEGEKVDFFDIQKKRQNKDLME
LQALIDSHFEARKKEEEEELVALKERIEKRRRAERAEQQRIRAEKERERQNLAAEEKARREEDAKRRAEDD
LKKKKALSSMGANYSSYLAKADQKRGKKQTAREMKKKILAERRKPLNIDHLGEDKLRDKAKELWETLHQL
EIDKFEFGEKLRQKYDITTLRSRIDQAQKHSKKAGTPAKGKVGGRWK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	30.4 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
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by 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.
Storage:	Store at -80°C.
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:	<u>NP_006748</u>
Locus ID:	7140

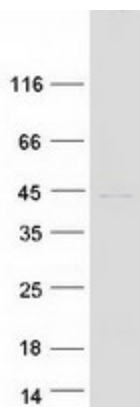


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UniProt ID:	P45378
RefSeq Size:	1217
Cytogenetics:	11p15.5
RefSeq ORF:	774
Synonyms:	beta-TnTF; DA2B2; TNTF

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 actin-myosin 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 arthrogyriosis multiplex congenita type 2B (DA2B). [provided by RefSeq, Oct 2009]

Product images:



Coomassie blue staining of purified TNNT3 protein (Cat# [TP316642]). The protein was produced from HEK293T cells transfected with TNNT3 cDNA clone (Cat# [RC216642]) using MegaTran 2.0 (Cat# [TT210002]).