

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
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Human Troponin T, fast skeletal muscle(TNNT3) ELISA kit

Product Code	CSB-EL024017HU
Abbreviation	TNNT3
Target Name	troponin T type 3 (skeletal, fast)
Uniprot No.	P45378
Alias	DKFZp779M2348, TNTF, OTTHUMP00000014435 troponin T, fast skeletal muscle troponin T3, skeletal, fast troponin-T3, skeletal, fast
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	7.81 pg/mL-500 pg/mL
Sensitivity	1.95 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Signal Transduction
Target Names	TNNT3
Tag Info	quantitative
Protein Length	Sandwich
Target Details	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

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validity has not been established. Mutations in this gene may cause distal arthrogryposis multiplex congenita type 2B (DA2B).

Product Precision	Intra-as Three s to asse Inter-as Three s assess.	Intra-assay Precision (Precision within an assay): CV%<8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV%<10% Three samples of known concentration were tested in twenty assays to assess. To assess the linearity of the assay, samples were spiked with high concentrations of human TNNT3 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.						
Linearity	To asse concen Sample assay.							
	?	Sample		Serum(n=4)				
	1.1	Average %		98				
	1.1	Range %		89-101				
	1.0	Average %		107				
	1.2	Range %		99-111				
	1.1	Average %		92				
	1.4	Range %		84-95				
	1.8	Average %		99				
	1.0	Range %		90-103				
Recovery	The rec assay ii as direc	The recovery of human TNNT3 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.						
	Sample	Sample Type		% Recovery	Range			
	Serum	Serum (n=5)			95-108			
	EDTA p	EDTA plasma (n=4)			92-101			

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.

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