

Human Troponin C, skeletal muscle (TNNC2) ELISA Kit

Catalog No: #EK6164

Package Size: #EK6164-1 48T #EK6164-2 96T

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Description

Product Name	Human Troponin C, skeletal muscle (TNNC2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	Fast skeletal muscle troponin C troponin C2; fast
Accession No.	P02585
Uniprot	P02585
GeneID	7125;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:Request Information

Sensitivity:Request Information

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate TNNC2 in samples. An antibody specific for TNNC2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTNNC2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TNNC2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TNNC2 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:The troponin C protein is the calcium-binding subunit of the troponin complex. It occurs in 2 distinct isoforms: fast skeletal troponin C, which is expressed exclusively in fast-twitch skeletal muscle, and slow/cardiac troponin C, which is expressed in both cardiac and slow-twitch skeletal muscle. Gahlmann and Kedes (1990) described the structure and sequence of the gene for fast-twitch troponin C.

By PCR-based analysis of a monochromosomal hybrid panel followed by analysis of the Genebridge 4 radiation hybrid panel, Townsend et al. (1997) mapped the TNNC2 gene to chromosome 20. Tiso et al. (1997) independently mapped the TNNC2 gene to 20q12-q13.11 using PCR of radiation hybrids.

Note: This product is for in vitro research use only