Rat Troponin C, slow skeletal and cardiac muscles (TNNC1) ELISA Kit

Catalog No: #EK12296

Package Size: #EK12296-1 48T #EK12296-2 96T

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Description

Product Name	Rat Troponin C, slow skeletal and cardiac muscles (TNNC1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	CMD1Z; TNC; TNNC; cardiac troponin C|slow twitch skeletal/cardiac muscle troponin C|troponin C; slow|troponin C1; slow
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 TNNC1 in samples. An antibody specific for TNNC1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTNNC1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TNNC1 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 TNNC1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Troponin is a central regulatory protein of striated muscle contraction, and together with tropomyosin, is located on the actin filament. Troponin consists of 3 subunits: TnI, which is the inhibitor of actomyosin ATPase; TnT, which contains the binding site for tropomyosin; and TnC, the protein encoded by this gene. The binding of calcium to TnC abolishes the inhibitory action of TnI, thus allowing the interaction of actin with myosin, the hydrolysis of ATP, and the generation of tension. Mutations in this gene are associated with cardiomyopathy dilated type 1Z.Using a human/rodent monochromosomal mapping panel, Song et al. (1996) mapped a human symbolized TNNC1 to chromosome 3 by PCR. Chromosome 3 somatic cell hybrids with various rearrangements were used for finer mapping to 3p21.3-p14.3.

Note: This product is for in vitro research use only