

Product datasheet

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ARG82124 Rat Cardiac Troponin I ELISA Kit

Package: 96 wells Store at: 4°C

Summary

Product Description ARG82124 Rat Cardiac Troponin I ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat

Cardiac Troponin I in serum and plasma.

Tested Reactivity Rat
Tested Application ELISA

Specificity The following recombinant Rat proteins were tested and exhibited no cross-reactivity or interference:

Adiponectin, ApoAI, BMP1, BMP2, BMP3, BMP4, BMP5, BMP7, CCL2, CCL4, CCL5, CRP, HGF, HSP27, IL1 beta, IL1RA, IL1 alpha, IL1 RI, IL2, IL4, IL5, IL6, IL6R, IL8, IL12, IL13, IL15, IL17C, IL21, IL23, IFN beta, IFN gamma, PDGF, PLA2G7, prolactin, serpin E1, TGF beta 1, TGF beta 2, TGF beta 3, TLR1, TLR2, TL3, TLR9,

TNF alpha, TNF RI, TNF RII, VEGF, VEGF R1.

Target Name Cardiac Troponin I

Conjugation HRP

Conjugation Note Read at 450 nm.

Sensitivity 0.15 ng/ml

Sample Type Serum and plasma.

Standard Range 0.78 - 50 ng/ml

Sample Volume $100 \mu l$

Precision Intra-Assay CV: 5%

Inter-Assay CV: 8%

Alternate Names RCM1; cTnl; Cardiac troponin I; TNNC1; CMD1FF; CMD2A; Troponin I, cardiac muscle; CMH7

Application Instructions

Assay Time ~ 3 hours

Properties

Form 96 well

Storage instruction Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test

reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual

for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol TNNI3

Gene Full Name troponin I type 3 (cardiac)

Background Troponin I (TnI), along with troponin T (TnT) and troponin C (TnC), is one of 3 subunits that form the

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troponin complex of the thin filaments of striated muscle. Tnl is the inhibitory subunit; blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The Tnl subfamily contains three genes: Tnl-skeletal-fast-twitch, Tnl-skeletal-slow-twitch, and Tnl-cardiac. This gene encodes the Tnl-cardiac protein and is exclusively expressed in cardiac muscle tissues. Mutations in this gene cause familial hypertrophic cardiomyopathy type 7 (CMH7) and familial restrictive cardiomyopathy (RCM). [provided by RefSeq, Jul 2008]

Function

Troponin I is the inhibitory subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity. [UniProt]

Highlight

Related products:

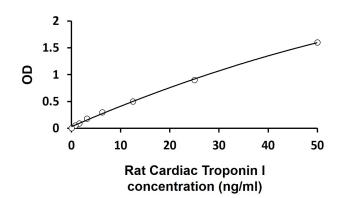
<u>Troponin antibodies</u>; <u>Troponin ELISA Kits</u>;

New ELISA data calculation tool: Simplify the ELISA analysis by GainData

PTM

Phosphorylated at Ser-42 and Ser-44 by PRKCE; phosphorylation increases myocardium contractile dysfunction (By similarity). Phosphorylated at Ser-23 and Ser-24 by PRKD1; phosphorylation reduces myofilament calcium sensitivity. Phosphorylated preferentially at Thr-31. Phosphorylation by STK4/MST1 alters its binding affinity to TNNC1 (cardiac Tn-C) and TNNT2 (cardiac Tn-T). [UniProt]

Images



ARG82124 Rat Cardiac Troponin I ELISA Kit

ARG82124 Rat Cardiac Troponin I ELISA Kit results of a typical standard run with optical density reading at 450 nm.