

## ARG82123 Rat Cardiac Troponin T ELISA Kit

Package: 96 wells

Store at: 4°C

### Summary

Product Description	ARG82123 Rat Cardiac Troponin T ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat Cardiac Troponin T 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 T
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 µl
Precision	Intra-Assay CV: 5% Inter-Assay CV: 8%
Alternate Names	RCM3; CMPD2; LVNC6; TnTC; TnTc; CMH2; cTnT; Cardiac muscle troponin T; CMD1D; Troponin T, cardiac muscle

### Application Instructions

Assay Time	~ 3 hours
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### 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	TNNT2
Gene Full Name	troponin T type 2 (cardiac)
Background	The protein encoded by this gene is the tropomyosin-binding subunit of the troponin complex, which is located on the thin filament of striated muscles and regulates muscle contraction in response to

alterations in intracellular calcium ion concentration. Mutations in this gene have been associated with familial hypertrophic cardiomyopathy as well as with dilated cardiomyopathy. Transcripts for this gene undergo alternative splicing that results in many tissue-specific isoforms, however, the full-length nature of some of these variants has not yet been determined. [provided by RefSeq, Jul 2008]

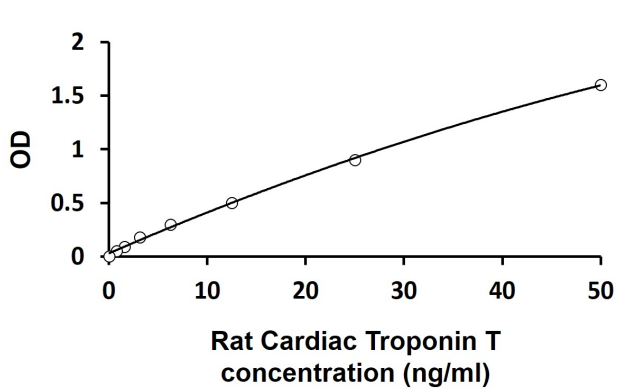
**Function** Troponin T is the tropomyosin-binding subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity. [UniProt]

**Highlight** Related products:  
[Troponin antibodies; Troponin ELISA Kits;](#)  
New ELISA data calculation tool:  
[Simplify the ELISA analysis by GainData](#)

**PTM** Phosphorylation at Thr-213 by PRKCA induces significant reduction in myofilament calcium sensitivity and actomyosin ATPase activity. [UniProt]

## Images

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ARG82123 Rat Cardiac Troponin T ELISA Kit

ARG82123 Rat Cardiac Troponin T ELISA Kit results of a typical standard run with optical density reading at 450 nm.