

Rat Cardiac Troponin I (cTn-I) ELISA Kit | cTn-I elisa kit

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CATALOG #
AAA330228

REACTIVITY
Rat

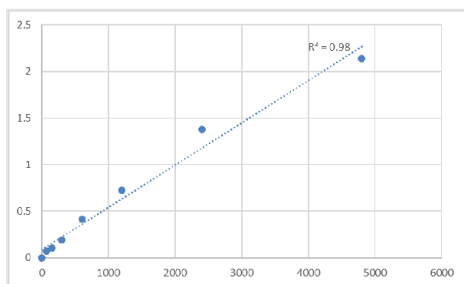
PRODUCT SYNONYMS

Cardiac Troponin I (cTn-I); Rat Cardiac Troponin I (cTn-I) ELISA Kit; cTn-I elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Rat Cardiac troponin I (cTn-I) ELISA Kit has high sensitivity and excellent specificity for detection of Rat cTn-I. No significant cross-reactivity or interference between Rat cTn-I and analogues was observed.
Sequence Length	211
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Rat Cardiac troponin I (cTn-I) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for cTn-I elisa kit	Description: This Rat Cardiac troponin I (cTn-I) ELISA Kit employs a two-site sandwich ELISA to quantitate cTn-I in samples. An antibody specific for cTn-I has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any cTn-I present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for cTn-I 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 cTn-I bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Troponin I (TnI), along with troponin T (TnT) and troponin C (TnC), is one of 3 subunits that form the troponin complex of the thin filaments of striated muscle. TnI is the inhibitory subunit; blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily contains three genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. This gene encodes the TnI-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]
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NCBI AND UNIPROT INFORMATION

NCBI GI #	52001467
UniProt Accession #	P02646
NCBI Official Full Name	Troponin I, cardiac muscle
UniProt Protein Name	Troponin I, cardiac muscle
UniProt Gene Name	TNNI3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/cardiac-troponin-i-ctn-i/330228>