

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

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CATALOG #
AAA332422

REACTIVITY
Mouse

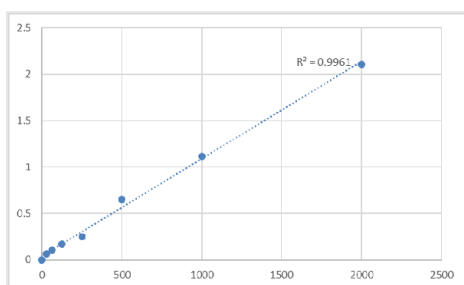
PRODUCT SYNONYMS

Cardiac Troponin I (cTn-I); Mouse Cardiac Troponin I (cTn-I) ELISA Kit; TNNI3; CMD2A; CMH7; MGC116817; RCM1; TNNC1; cTnI; familial hypertrophic cardiomyopathy 7; troponin I; cardiac; cTn-I elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Mouse Cardiac troponin I (cTn-I) ELISA Kit has high sensitivity and excellent specificity for detection of Mouse TNNI3. No significant cross-reactivity or interference between Mouse TNNI3 and analogues was observed.
Sequence Length	208
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. Mouse Cardiac troponin I (cTn-I) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for cTn-I elisa kit	Description: This Mouse Cardiac troponin I (cTn-I) ELISA Kit employs a two-site sandwich ELISA to quantitate TNNI3 in samples. An antibody specific for TNNI3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TNNI3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TNNI3 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 TNNI3 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Troponin I is part of a heteromeric complex playing an important role in the regulation of skeletal and cardiac muscle contraction. It consists of three subunits, troponin I (TnI), troponin T (TnT) and troponin C (TnC). Each subunit is responsible for part of troponin complex function. TnI inhibits ATPase activity of acto myosin and TnT and TnI are present in cardiac muscles in different forms than in skeletal muscles. Only one tissue specific isoform of TnI is described for cardiac muscle tissue (cTnI) and this is expressed only in myocardium. Equally reactive with free cardiac troponin I (cTnI) and cTnI forming complexes with other troponin components. (In the presence of 5 mM EDTA). Antibodies are not affected by heparin, phosphorylation, oxidation and troponin complex formation. No cross-reaction with skeletal muscle troponin I.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	734703866
NCBI GenBank Nucleotide #	NP_001290098.1
NCBI Official Full Name	cardiac troponin I

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://www.aaabiotech.com/mouse-elisa-kits/cardiac-troponin-i-ctn-i/332422>