

Mouse Cardiac Troponin I (cTnI) ELISA Kit | cTnI elisa kit

Mouse Cardiac Troponin I (cTnI) Mini Samples ELISA Kit

CATALOG # AAA188697	REACTIVITY Mouse	APPLICATIONS ELISA
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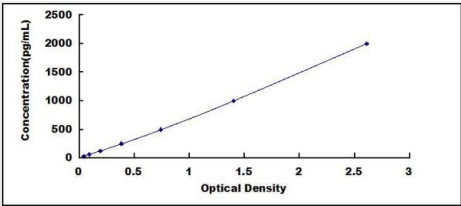
PRODUCT SYNONYMS

Cardiac Troponin I (cTnI); Mouse Cardiac Troponin I (cTnI) Mini Samples ELISA Kit; Cardiac Troponin I; TNNI3; TNNC1; CMH7; C-TnI; Troponin I Type 3; Cardiac; cTnI elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Mini Samples Cardiac Troponin I (cTnI). No significant cross-reactivity or interference between Mini Samples Cardiac Troponin I (cTnI) and analogues was observed.
Sequence Length	211
Assay Type	Double-antibody Sandwich
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	31.2-2,000pg/mL
Sensitivity	The minimum detectable dose of this kit is typically less than 11.2pg/mL
Applicable Applications for cTnI elisa kit	ELISA
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Mini Samples Cardiac Troponin I (cTnI) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Mini Samples Cardiac Troponin I (cTnI) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10% Inter-Assay: CV<12%
Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Mini Samples Cardiac Troponin I (cTnI). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Mini Samples Cardiac Troponin I (cTnI). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Mini Samples Cardiac Troponin I (cTnI), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of Mini Samples Cardiac Troponin I (cTnI) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Preparation and Storage	The stability of 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. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

NCBI AND UNIPROT INFORMATION

NCBI GI #	6678393
NCBI GeneID	21954
NCBI Accession #	NP_033432.1
NCBI GenBank Nucleotide #	NP_033432.1
UniProt Accession #	P48787
NCBI Official Full Name	troponin I, cardiac muscle
NCBI Official Synonym Full Names	troponin I, cardiac 3
NCBI Official Symbol	Tnni3
NCBI Official Synonym Symbols	Tn1; cTnI
NCBI Protein Information	troponin I, cardiac muscle
UniProt Protein Name	Troponin I, cardiac muscle
UniProt Gene Name	Tnni3
UniProt Entry Name	TNNI3_MOUSE

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/mouse-elisa-kits/cardiac-troponin-i-ctni/188697>