

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

Rat Cardiac Troponin I (cTnI) High Sensitive ELISA Kit

CATALOG # AAA188497	REACTIVITY Rat	APPLICATIONS ELISA
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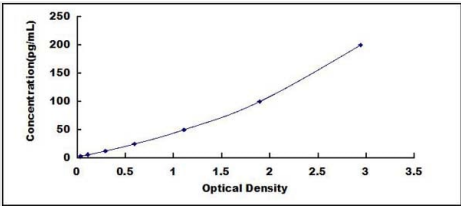
PRODUCT SYNONYMS

Cardiac Troponin I (cTnI); Rat Cardiac Troponin I (cTnI) High Sensitive ELISA Kit; Cardiac Troponin I; TNNI3; TNNC1; CMH7; C-TnI; Troponin I Type 3; Cardiac; cTnI elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of High Sensitive Cardiac Troponin I (cTnI). No significant cross-reactivity or interference between High Sensitive 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	3.12-200pg/mL
Sensitivity	The minimum detectable dose of this kit is typically less than 1.29pg/mL
Applicable Applications for cTnI elisa kit	ELISA
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level High Sensitive 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 High Sensitive 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	This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to High Sensitive Cardiac Troponin I (cTnI) has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled High Sensitive Cardiac Troponin I (cTnI) and unlabeled High Sensitive Cardiac Troponin I (cTnI) (Standards or samples) with the pre-coated antibody specific to High Sensitive Cardiac Troponin I (cTnI). After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of High Sensitive Cardiac Troponin I (cTnI) in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of High Sensitive Cardiac Troponin I (cTnI) in the sample.
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 #	8394469
NCBI GeneID	29248
NCBI Accession #	NP_058840.1
NCBI GenBank Nucleotide #	NP_058840.1
UniProt Accession #	P23693
NCBI Official Full Name	troponin I, cardiac muscle
NCBI Official Synonym Full Names	troponin I3, cardiac type
NCBI Official Symbol	Tnni3
NCBI Official Synonym Symbols	TnI; cTNI
NCBI Protein Information	troponin I, cardiac muscle
UniProt Protein Name	Troponin I, cardiac muscle
UniProt Gene Name	Tnni3
UniProt Synonym Gene Names	Ctni; Tni

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-ctni/188497>