Mouse Troponin C Type 1, Slow (TNNC1) ELISA Kit | TNNC1 elisa kit

Mouse Troponin C Type 1, Slow (TNNC1)(Sandwich ELISA) ELISA Kit

CATALOG #	REACTIVITY
AAA152542	**Mouse**

PRODUCT SYNONYMS

Troponin C Type 1; Slow (TNNC1); Mouse Troponin C Type 1; Slow (TNNC1)(Sandwich ELISA) ELISA Kit; ELISA Kit for Troponin C Type 1; TNC; TroponinC; Cardiac; Troponin C; slow skeletal and cardiac muscles; TNNC1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Detects protein (regular version) Reactive with Mouse TNNC1/Troponin C Type 1, Slow This assay has high sensitivity and excellent specificity for detection of Troponin C Type 1, Slow (TNNC1). No significant cross-reactivity or interference between Troponin C Type 1, Slow (TNNC1) and analogues was observed.
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma and other biological fluids
Detection Method	Colormetric
Sensitivity	6.7pg/mL
Assay Time	3h
Sample Size	100uL
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Troponin C Type 1, Slow (TNNC1) were tested 20 times on one plate, respectively.Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Troponin C Type 1, Slow (TNNC1) 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 Troponin C Type 1, Slow (TNNC1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Troponin C Type 1, Slow (TNNC1). 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 Troponin C Type 1, Slow (TNNC1), 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 Troponin C Type 1, Slow (TNNC1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 100uL standard or sample to each well. Incubate 2 hours at 37 degree C 3. Aspirate and add 100uL prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 100uL prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 90uL Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 50uL Stop Solution. Read at 450nm immediately.

Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (within shelf life) Shelf-life: one year 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)
Typical Standard Curve for TNNC1 ELISA (Sandwich

NCBI AND UNIPROT INFORMATION

NCBI GI #	6678369
NCBI GeneID	21924
NCBI Accession #	NP_033419.1
NCBI GenBank Nucleotide #	NM_009393.2
UniProt Accession #	P19123
Molecular Weight	18,421 Da
NCBI Official Full Name	troponin C, slow skeletal and cardiac muscles
NCBI Official Synonym Full Names	troponin C, cardiac/slow skeletal
NCBI Official Symbol	Tnnc1
NCBI Official Synonym Symbols	TnC; cTnC; cTnI; tncc; AI874626
NCBI Protein Information	troponin C, slow skeletal and cardiac muscles; TN-C
UniProt Protein Name	Troponin C, slow skeletal and cardiac muscles
UniProt Gene Name	**Tnnc1**
UniProt Synonym Gene Names	Tncc; TN-C
UniProt Entry Name	TNNC1_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/troponin-c-type-1-slow-tnnc1/152542