

Human troponin I type 3 (cardiac) ELISA Kit | TNNI3 elisa kit

Human cardiac troponin I , cTn-I ELISA Kit

CATALOG #
AAA79553

REACTIVITY
Human

PRODUCT SYNONYMS

troponin I type 3 (cardiac); Human cardiac troponin I; cTn-I ELISA Kit; cTn-I ELISA Kit; CMD2A; CMH7; MGC116817; RCM1; TNNC1; cTnI; familial hypertrophic cardiomyopathy 7; troponin I; cardiac; TNNI3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Human TNNI3. No significant cross-reactivity or interference between Human TNNI3 and analogues was observed.
Sequence Length	210
Samples	Serum, plasma, urine
Detection Range	47 pg/ml-3000 pg/ml
Sensitivity	11.75 pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TNNI3 elisa kit

Introduction: Troponin I is a part of the troponin complex. It binds to actin in thinmyofilaments to hold the actin-tropomyosin complex in place. Tnlinhibits ATPase activity of acto myosin and TnT and TnI arepresent in cardiac muscles in different forms than in skeletalmuscles. Only one tissue specific isoform of TnI is described forcardiac muscle tissue (cTnI) and this is expressed only inmyocardium. Equally reactive with free cardiac troponin I (cTnI)and cTnI forming complexes with other troponin components. (Inthe presence of 5 mM EDTA). Antibodies are not affected byheparin, phosphorylation, oxidation and troponin complexformation. No cross-reaction with skeletal muscle troponin I.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with anantibody specific to cTn-I. Standards or samples are then addedto the appropriate microtiter plate wells with a biotin-conjugatedantibody preparation specific for cTn-I and Avidin conjugated toHorseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine)substrate solution is added to each well. Only those wells thatcontain cTn-I, biotin-conjugated antibody and enzyme-conjugatedAvidin will exhibit a change in color. The enzyme-substrate reactionis terminated by the addition of a sulphuric acid solution and thecolor change is measured spectrophotometrically at a wavelengthof 450 nm +/- 2 nm. The concentration of cTn-I in the samples isthen determined by comparing the O.D. of the samples to thestandard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	151101270
NCBI GeneID	7137
NCBI Accession #	NP_000354.4
NCBI GenBank Nucleotide #	NM_000363.4
UniProt Accession #	P19429
Molecular Weight	24,008 Da
NCBI Official Full Name	troponin I, cardiac muscle
NCBI Official Synonym Full Names	troponin I type 3 (cardiac)
NCBI Official Symbol	TNNI3
NCBI Official Synonym Symbols	CMH7; RCM1; cTnI; CMD2A; TNNC1; CMD1FF
NCBI Protein Information	troponin I, cardiac muscle; cardiomyopathy, dilated 2A (autosomal recessive)
UniProt Protein Name	Troponin I, cardiac muscle
UniProt Gene Name	TNNI3
UniProt Synonym Gene Names	TNNC1
UniProt Entry Name	TNNI3_HUMAN

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/tnni3-human-elisa-kits/troponin-i-type-3-cardiac/79553>