

Human Cardiac Troponin T (cTn-T) ELISA Kit | cTn-T elisa kit

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CATALOG #
AAA330408

REACTIVITY
Human

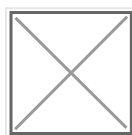
PRODUCT SYNONYMS

Cardiac Troponin T (cTn-T); Human Cardiac Troponin T (cTn-T) ELISA Kit; TNNT1; ANM; FLJ98147; MGC104241; STNT; TNT; TENTS; slow skeletal muscle troponin T; troponin T1; skeletal; slow; troponin-T1; cTn-T elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Cardiac troponin T (cTn-T) ELISA Kit has high sensitivity and excellent specificity for detection of Human TNNT1. No significant cross-reactivity or interference between Human TNNT1 and analogues was observed.
Sequence Length	251
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. Human Cardiac troponin T (cTn-T) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for cTn-T elisa kit	Description: This Human Cardiac troponin T (cTn-T) ELISA Kit employs a two-site sandwich ELISA to quantitate TNNT1 in samples. An antibody specific for TNNT1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TNNT1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TNNT1 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 TNNT1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Cardiac troponin T (cTn-T) is a subunit of troponin, which is a regulatory complex located on the thin filament of the sarcomere. This complex regulates striated muscle contraction in response to fluctuations in intracellular calcium concentration. This complex is composed of three subunits: troponin C, which binds calcium, troponin T, which binds tropomyosin, and troponin I, which is an inhibitory subunit. cTn-T is the slow skeletal troponin T subunit. Mutations in this gene cause nemaline myopathy type 5, also known as Amish nemaline myopathy, a neuromuscular disorder characterized by muscle weakness and rod-shaped, or nemaline, inclusions in skeletal muscle fibers which affects infants, resulting in death due to respiratory insufficiency, usually in the second year. Multiple transcript variants encoding different isoforms have been found for cTn-T.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	187173292
NCBI GeneID	7138
NCBI Accession #	NP_001119605.1
NCBI GenBank Nucleotide #	NP_001119605.1
UniProt Accession #	P13805
NCBI Official Full Name	troponin T, slow skeletal muscle isoform c
NCBI Official Synonym Full Names	troponin T1, slow skeletal type
NCBI Official Symbol	TNNT1
NCBI Official Synonym Symbols	ANM; TNT; NEM5; STNT; TNTS
NCBI Protein Information	troponin T, slow skeletal muscle
UniProt Protein Name	Troponin T, slow skeletal muscle
UniProt Gene Name	TNNT1
UniProt Synonym Gene Names	TNT; TnTs; sTnT
UniProt Entry Name	TNNT1_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.