# Mouse Troponin C, Slow Skeletal And Cardiac Muscles (TNNC1) ELISA Kit | TNNC1 elisa kit

Mouse Troponin C, Slow Skeletal And Cardiac Muscles (TNNC1) ELISA Kit

| CATALOG # | REACTIVITY |
|---|---|
| **AAA332116** | **Mouse** |

## PRODUCT SYNONYMS

Troponin C; Slow Skeletal And Cardiac Muscles (TNNC1); Mouse Troponin C; Slow Skeletal And Cardiac Muscles (TNNC1) ELISA Kit; TNNC1; CMD1Z; TNC; TNNC; cardiac troponin C; slow twitch skeletal/cardiac muscle troponin C; troponin C; slow; troponin C1; TNNC1 elisa kit

## PRODUCT SPECIFICATIONS

| | |
|---|---|
| **Reactivity** | Mouse |
| **Specificity** | Mouse Troponin C, slow skeletal and cardiac muscles (TNNC1) ELISA Kit has high sensitivity and excellent specificity for detection of Mouse TNNC1. No significant cross-reactivity or interference between Mouse TNNC1 and analogues was observed. |
| **Sequence Length** | 161 |
| **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.<br>* Allow all reagents to warm to room temperature for at least 30 minutes before opening.<br>* Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination.<br>* Unused wells must be kept desiccated at 4 degree C in the sealed bag provided.<br>* Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes.<br>* 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. Mouse Troponin C, slow skeletal and cardiac muscles (TNNC1) Standard Curve.

## ADDITIONAL INFORMATION

| | |
|---|---|
| **Related Product Information for TNNC1 elisa kit** | Description: This Mouse Troponin C, slow skeletal and cardiac muscles (TNNC1) ELISA Kit employs a two-site sandwich ELISA to quantitate TNNC1 in samples. An antibody specific for TNNC1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TNNC1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TNNC1 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 TNNC1 bound in the initial step. The color development is stopped and the intensity of the color is measured.<br><br>Background: Troponin is a central regulatory protein of striated muscle contraction, and together with tropomyosin, is located on the actin filament. Troponin consists of 3 subunits: TnI, which is the inhibitor of actomyosin ATPase; TnT, which contains the binding site for tropomyosin; and TnC, the protein encoded by this gene. The binding of calcium to TnC abolishes the inhibitory action of TnI, thus allowing the interaction of actin with myosin, the hydrolysis of ATP, and the generation of tension. Mutations in this gene are associated with cardiomyopathy dilated type 1Z.Using a human/rodent monochromosomal mapping panel, Song et al. (1996) mapped a human symbolized TNNC1 to chromosome 3 by PCR. Chromosome 3 somatic cell hybrids with various rearrangements were used for finer mapping to 3p21.3-p14.3. |

## NCBI AND UNIPROT INFORMATION

| | |
|---|---|
| **NCBI GI #** | 6678369 |
| **NCBI GeneID** | 21924 |
| **NCBI Accession #** | NP_033419.1 |
| **NCBI GenBank Nucleotide #** | NP_033419.1 |
| **UniProt Accession #** | P19123 |
| **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 |
| **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.

**AAA Biotech** | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/mouse-elisa-kits/troponin-c-slow-skeletal-and-cardiac-muscles-tnnc1/332116