

## Human Cardiac Troponin T ELISA Kit | cTnT elisa kit

Human Cardiac Troponin T ELISA Kit

CATALOG #  
**AAA16054**

REACTIVITY  
**Human**

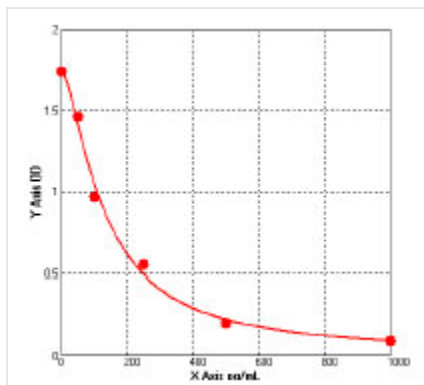
### PRODUCT SYNONYMS

Cardiac Troponin T; Human Cardiac Troponin T ELISA Kit; cTnT elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                    |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of cTnT. No significant cross-reactivity or interference between cTnT and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between cTnT and all the analogues, therefore, cross reaction may still exist in some cases. |
| Assay Type              | Quantitative Competitive                                                                                                                                                                                                                                                                                                                                                                 |
| Samples                 | Serum, plasma, cell culture supernatants, body fluid and tissue homogenate                                                                                                                                                                                                                                                                                                               |
| Sensitivity             | 1.0 pg/mL                                                                                                                                                                                                                                                                                                                                                                                |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                      |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for cTnT elisa kit | <p>Principle of the Assay: cTnT ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-cTnT antibody and an cTnT-HRP conjugate. The assay sample and buffer are incubated together with cTnT-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the cTnT concentration since cTnT from samples and cTnT-HRP conjugate compete for the anti-cTnT antibody binding site. Since the number of sites is limited, as more sites are occupied by cTnT from the sample, fewer sites are left to bind cTnT-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The cTnT concentration in each sample is interpolated from this standard curve.</p> <p>Intended Uses: This cTnT ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human cTnT. This ELISA kit for research use only, not for therapeutic or diagnostic applications!</p> |
| Product Categories/Family for cTnT elisa kit   | Cardiovascular                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                   |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 15290516                                                                                                                          |
| NCBI GeneID                      | 7139                                                                                                                              |
| Molecular Weight                 | 30,681 Da                                                                                                                         |
| NCBI Official Full Name          | cardiac troponin T                                                                                                                |
| NCBI Official Synonym Full Names | troponin T type 2 (cardiac)                                                                                                       |
| NCBI Official Symbol             | TNNT2                                                                                                                             |
| NCBI Official Synonym Symbols    | CMH2; RCM3; TnTC; cTnT; CMD1D; CMPD2; LVNC6                                                                                       |
| NCBI Protein Information         | troponin T, cardiac muscle; troponin T2, cardiac; cardiomyopathy, hypertrophic 2; cardiomyopathy, dilated 1D (autosomal dominant) |
| UniProt Protein Name             | Troponin T, cardiac muscle                                                                                                        |
| UniProt Gene Name                | TNNT2                                                                                                                             |
| UniProt Synonym Gene Names       | TnTc; cTnT                                                                                                                        |
| UniProt Entry Name               | TNNT2_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.