

## Human Serine/Threonine-Protein Kinase TNNI3K (TNNI3K) ELISA Kit | TNNI3K elisa kit

Human Serine/Threonine-Protein Kinase TNNI3K (TNNI3K) ELISA Kit

CATALOG #  
**AAA330409**

REACTIVITY  
**Human**

### PRODUCT SYNONYMS

Serine/Threonine-Protein Kinase TNNI3K (TNNI3K); Human Serine/Threonine-Protein Kinase TNNI3K (TNNI3K) ELISA Kit; TNNI3K; CARK; MGC142099; MGC33828; cardiac ankyrin repeat kinase; TNNI3K elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | Human Serine/threonine-protein kinase TNNI3K (TNNI3K) ELISA Kit has high sensitivity and excellent specificity for detection of Human TNNI3K. No significant cross-reactivity or interference between Human TNNI3K and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Sequence Length         | 936                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type              | Sandwich ELISA (Quantitative)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Samples                 | Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Detection Method        | Colorimetric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Usage Notes             | <ul style="list-style-type: none"> <li>* Do not mix components from different kit lots or use reagents beyond the kit expiration date.</li> <li>* Allow all reagents to warm to room temperature for at least 30 minutes before opening.</li> <li>* Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination.</li> <li>* Unused wells must be kept desiccated at 4 degree C in the sealed bag provided.</li> <li>* Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes.</li> <li>* It is recommended that all samples and standards be assayed in duplicate or triplicate.</li> </ul> |
| Preparation and Storage | Store at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### IMAGES



Standard Curve (Sample)

Fig.1. Human Serine/threonine-protein kinase TNNI3K (TNNI3K) Standard Curve.

ADDITIONAL INFORMATION

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| Related Product Information for TNNI3K elisa kit | <p>Description: This Human Serine/threonine-protein kinase TNNI3K (TNNI3K) ELISA Kit employs a two-site sandwich ELISA to quantitate TNNI3K in samples. An antibody specific for TNNI3K has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TNNI3K present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TNNI3K 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 TNNI3K bound in the initial step. The color development is stopped and the intensity of the color is measured.</p> <p>Background: TNNI3K is a new cardiac-specific MAP kinase whose gene is localized to 1p31.1 and that belongs to a tyrosine kinase-like branch in the kinase tree of the human genome.TNNI3K promoted the differentiation process, judging from the increasing beating mass and increased number of a-actinin-positive cells. TNNI3K improved cardiac function by enhancing beating frequency and increasing the contractile force and epinephrine response of spontaneous action potentials without an increase of the single-cell size. TNNI3K suppressed phosphorylation of cardiac troponin I, annexin-V+ cells, Bax protein, and p38/JNK-mediated apoptosis.TNNI3K promotes cardiomyogenesis, enhances cardiac performance, and protects the myocardium from ischemic injury by suppressing p38/JNK-mediated apoptosis.</p> |
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NCBI AND UNIPROT INFORMATION

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|----------------------------------|----------------------------------------|
| NCBI GI #                        | 163914396                              |
| NCBI GeneID                      | 100526835                              |
| NCBI Accession #                 | NP_001106279.1                         |
| NCBI GenBank Nucleotide #        | NP_001106279.1                         |
| UniProt Accession #              | Q59H18                                 |
| NCBI Official Full Name          | FPGT-TNNI3K fusion protein isoform a   |
| NCBI Official Synonym Full Names | FPGT-TNNI3K readthrough                |
| NCBI Official Symbol             | FPGT-TNNI3K                            |
| NCBI Official Synonym Symbols    | CARK; TNNI3K                           |
| NCBI Protein Information         | FPGT-TNNI3K fusion protein             |
| UniProt Protein Name             | Serine/threonine-protein kinase TNNI3K |
| UniProt Gene Name                | TNNI3K                                 |
| UniProt Synonym Gene Names       | CARK                                   |
| UniProt Entry Name               | TNI3K_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.