

# Mouse Serine/threonine-protein kinase TNNI3K (TNNI3K) ELISA Kit

Catalog No: #EK6147

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Package Size: #EK6147-1 48T #EK6147-2 96T

## Description

Product Name	Mouse Serine/threonine-protein kinase TNNI3K (TNNI3K) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse ( <i>Mus musculus</i> )
Other Names	CARK; MGC142099; MGC33828; cardiac ankyrin repeat kinase
Accession No.	Q5GIG6
Uniprot	Q5GIG6
GeneID	435766;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:Request Information

Sensitivity:Request Information

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay 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 anyTNNI3K 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.**Product Overview:**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.

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Note: This product is for in vitro research use only