

# Mouse Troponin I, fast skeletal muscle (TNNI2) ELISA Kit



Catalog No: #EK6157

Orders: order@signalwayantibody.com

Package Size: #EK6157-1 48T #EK6157-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Mouse Troponin I, fast skeletal muscle (TNNI2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse ( <i>Mus musculus</i> )
Other Names	AMCD2B; DA2B; FSSV; fsTnI; OTTHUMP00000014141 OTTHUMP00000014142 fast-twitch skeletal muscle troponin I troponin I fast twitch 2 troponin I; fast-twitch skeletal muscle isoform troponin I; skeletal;
Accession No.	P13412
Uniprot	P13412
GeneID	21953;
Storage	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.  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).

## Application Details

Detect Range:78.12-5000 pg/mL

Sensitivity:30 pg/mL

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:**Sandwich Test principle: This assay employs a two-site sandwich ELISA to quantitate TNNI2 in samples. An antibody specific for TNNI2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TNNI2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TNNI2 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 TNNI2 bound in the initial step. The color development is stopped and the intensity of the color is measured.

**Product Overview:**TNNI2 is a fast-twitch skeletal muscle protein, a member of the troponin I gene family, and a component of the troponin complex including troponin T, troponin C and troponin I subunits. The troponin complex, along with tropomyosin, is responsible for the calcium-dependent regulation of striated muscle contraction. Mouse studies show that this component is also present in vascular smooth muscle and may play a role in regulation of smooth muscle function. In addition to muscle tissues, this protein is found in corneal epithelium, cartilage where it is an inhibitor of angiogenesis to inhibit tumor growth and metastasis, and mammary gland where it functions as a co-activator of estrogen receptor-related receptor alpha. This protein also suppresses tumor growth in human ovarian carcinoma.

---

Note: This product is for in vitro research use only