

Human Troponin I1/TNNI1 antibody

Catalog Number: ATGA0238

PRODUCT INFORMATION

Catalog number

ATGA0238

Clone No.

AT36E7

Product type

Monoclonal Antibody

UnitProt No.

P19237

NCBI Accession No.

NP_003272

Alternative Names

Troponin I1 slow skeletal muscle, Troponin I, slow skeletal muscle, DKFZp451O223, SSTNI, TNN1

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human TNNI1 (1-187aa) purified from E. coli

Isotype

IgG2b kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB

Usage

The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

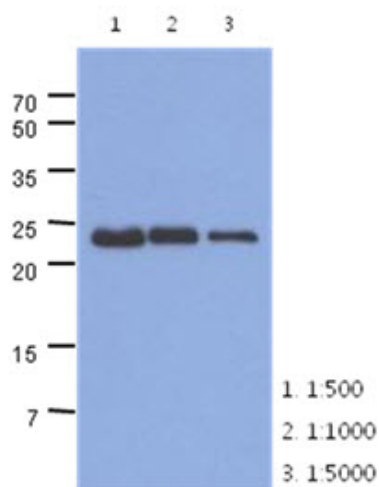
Troponin I, slow skeletal muscle, also known as TNNI1, belongs to the troponin I family. The troponin I subfamily contains three genes: TNNI-skeletal-fast-twitch, TNNI-skeletal-slow-twitch, and TNNI-cardiac. The TNNI-fast and TNNI-slow genes are expressed in fast-twitch and slow-twitch skeletal muscle fibers, respectively, while the TNNI-cardiac gene is expressed exclusively in cardiac muscle tissue. TNNI1 is the inhibitory subunit; blocking actin-myosin interactions and thereby mediating striated muscle relaxation.

General References

Hunkeler NM, Kullman J, Murphy AM (1991). *Circ. Res.* 69 (5): 1409-14.
 Bhavsar PK, Dhoot GK, Cumming DV, et al. (1992). *FEBS Lett.* 292 (1-2): 5-8.
 Westfall MV, Borton AR (2003). *J. Biol. Chem.* 278 (36): 33694-700.

DATA

Western blot analysis (WB)



The extracts of mouse muscle (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human TNNI1 antibody (1:500 ~ 1:5000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.