Product information

Monoclonal anti-human TNNI1 antibody (clone AT36E7)

Mouse IgG_{2b}, κ

Cat. No. IBATGA0238

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

NCBI Accession No.: NP_003272

Isotype: Mouse IgG_{2b} heavy chain and κ light chain

Clone: Anti-human TNNI1 mAb, clone AT36E7, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human TNNI1 protein.

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.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol.

Storage: Can be stored at +4C. For long term storage, aliquot and store at -20C. Avoid repeated freezing and thawing cycles.

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. Recommended dilution range for Western blot analysis is 1:500 ~ 1:5000.
Recommended starting dilution is 1:5000.

Application: ELISA, WB

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

Manufactured for:
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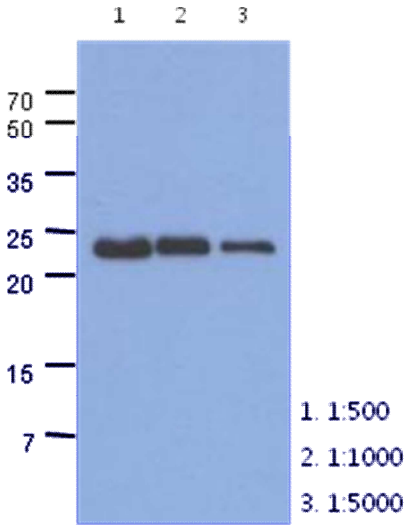
Western blot analysis

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.



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.

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