

Anti-Cardiac Troponin T Antibody [5-C7]

M1302-1



Product Type:	Mouse monoclonal IgG2b, primary antibodies
Species reactivity:	Human, Mouse
Applications:	WB, IF-Cell, IHC-P, FC
Molecular Wt:	Predicted band size: 36 kDa
Clone number:	5-C7

Description: Troponin, working in conjunction with tropomyosin, functions as a molecular switch, regulating muscle contraction in response to changes in the intracellular Ca^{2+} concentration. Troponin consists of three subunits: the Ca^{2+} -binding subunit troponin C (TnC), the tropomyosin-binding subunit troponin T (TnT), and the inhibitory subunit troponin I (TnI). Troponin T type 2 (cTnT, TNNT2) is a cardiac troponin T isoform expressed in the human heart, that is essential for calcium-regulated myofibrillar ATPase activity. Assays for measuring serum concentrations of cTnT, as well as cTnI, have been reported for analyzing cardiac injury.

Immunogen: Synthetic peptide within human TNNT2 50-100 aa.

Positive control: Human heart tissue lysate, SK-Br-3, mouse heart tissue.

Subcellular location: Cytosol.

Database links: SwissProt: P45379 Human | P50752 Mouse

Recommended Dilutions:

WB	1:2,000-1:5,000
IF-Cell	1:50-1:200
IHC-P	1:50-1:200
FC	1:50-1:100

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

Technical: 0086-571-89986345

Service mail: support@huabio.cn

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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

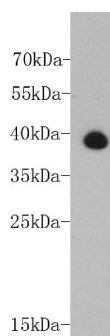


Fig1: Western blot analysis of TNNT2 on human heart tissue lysate using anti-TNNT2 antibody at 1/2,000 dilution.

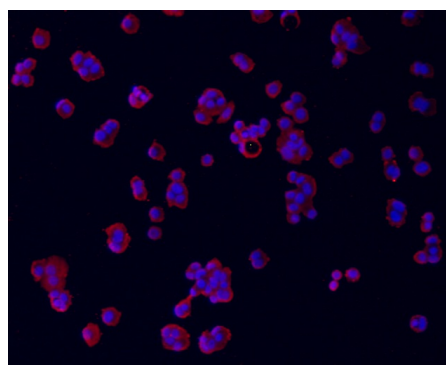


Fig2: ICC staining TNNT2 (red) in SK-Br-3 cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

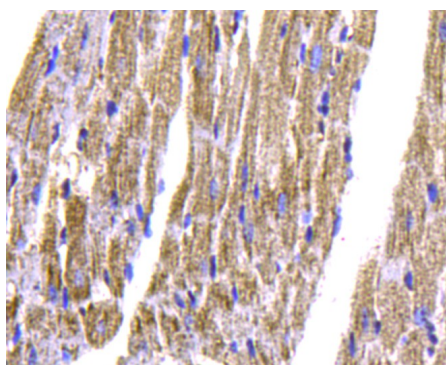


Fig3: Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-TNNT2 antibody. Counter stained with hematoxylin.

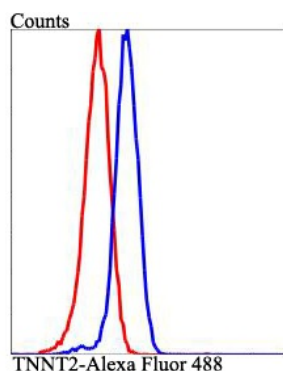


Fig4: Flow cytometric analysis of SK-Br-3 cells with TNNT2 antibody at 1/100 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti-mouse IgG was used as the secondary antibody.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Gerull B et al. A rapid protocol for cardiac troponin T gene mutation detection in familial hypertrophic cardiomyopathy. Hum Mutat 11:179-182 (1998).
2. Thierfelder L et al. Alpha-tropomyosin and cardiac troponin T mutations cause familial hypertrophic cardiomyopathy: a disease of the sarcomere. Cell 77:701-712 (1994).

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