bs-10648R **[Primary Antibody]**

Cardiac Troponin T Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 7139 **SWISS:** P45379

Target: Cardiac Troponin T

Immunogen: KLH conjugated synthetic peptide derived from human Cardiac Troponin T: 201-298/298.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The protein encoded by this gene is the tropomyosin-binding subunit of the troponin complex, which is located on the thin filament of striated muscles and regulates muscle contraction in response to alterations in intracellular calcium ion concentration. Mutations in this gene have been associated with familial hypertrophic cardiomyopathy as well as with dilated cardiomyopathy. Transcripts for this gene undergo alternative splicing that results in many tissue-specific isoforms, however, the full-length nature of some of these variants has not yet been determined. [provided by RefSeq].

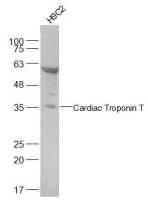
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg/Test)
ICC/IF (1:100-500)

Reactivity: Human, Mouse, Rat (predicted: Pig, Cow, Dog)

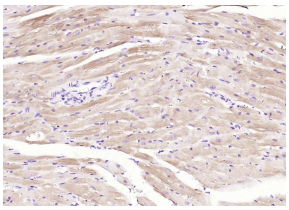
Predicted MW.: 36 kDa

Subcellular Location: Cytoplasm

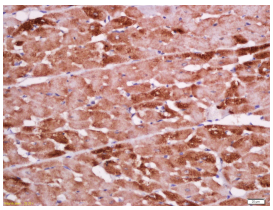
VALIDATION IMAGES



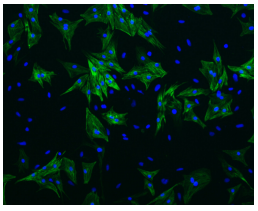
Sample: H9C2(Rat) Cell Lysate at 30 ug Primary: Anti-alpha smooth muscle Actin (bs-10648R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 36 kD Observed band size: 36 kD



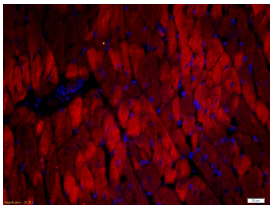
Paraformaldehyde-fixed, paraffin embedded (mouse heart); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Cardiac Troponin T) Polyclonal Antibody, Unconjugated (bs-10648R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Tissue/cell: rat heart tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-TNNT2 Polyclonal Antibody, Unconjugated(bs-10648R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Cell: Neonatal rat ventricular cardiomyocytes; Dilution: 1:400; Incubation: Anti-Cardiac Troponin T Antibody, unconjugated (bs-10648R); DAPI was used to stain the cell nuclei. The image



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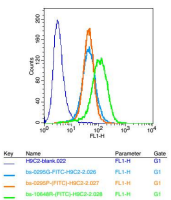
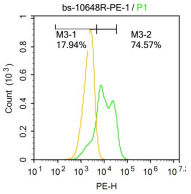


Positive control: H9C2 cells Concebtration: 2μg/10^6 cells Incubation conditions: Avoid light , 30 minutes on the ice.

is provided by Tongji University.

Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-TNNT2 Polyclonal Antibody, Unconjugated(bs-R) 1:500, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(bs-0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C. DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei



Blank control:U-2OS. Primary Antibody (green line): Rabbit Anti-TNNT2 antibody (bs-10648R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF647 Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at-20°C. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=64.8]** Lai Yiwei. et al. Multimodal cell atlas of the ageing human skeletal muscle. NATURE. 2024 Apr;629(8010):154-164 IF ;Human. 38649488
- **[IF=15.1]** Kai Wang. et al. HNEAP Regulates Necroptosis of Cardiomyocytes by Suppressing the m5C Methylation of Atf7 mRNA. Advanced Science. 2023 Oct;:2304329 WB ;Mouse. 37870216
- **[IF=14.3]** Mengni Bao. et al.PICALM Regulating the Generation of Amyloid β-Peptide to Promote Anthracycline - Induced Cardiotoxicity.adv sci (weinh).2024 Aug;11(32):e2401945. IHC ;Mouse. 38935046
- **[IF=14.3]** Mengni Bao. et al. PICALM Regulating the Generation of Amyloid β-Peptide to Promote Anthracycline-Induced Cardiotoxicity. ADV SCI. 2024 Jun;:2401945 IHC ;Mouse. 38935046
- **[IF=9.531]** Wenhao Han. et al. Targeting Myocardial Mitochondria-STING-Polyamine Axis Prevents Cardiac Hypertrophy in Chronic Kidney Disease. JACC-BASIC TRANSL SC. 2022 Aug;: IF ;Mouse. 36061341