

**bs-0799R****[ Primary Antibody ]****Bioss**  
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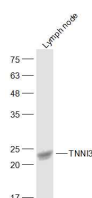
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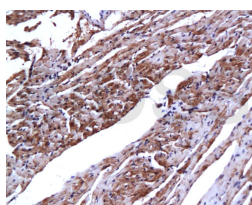
400-901-9800

**Cardiac Troponin I/TNNC1 Rabbit pAb****— DATASHEET —**

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> <b>WB</b> (1:500-2000)
<b>Clonality:</b> Polyclonal		<b>IHC-P</b> (1:100-500)
<b>GeneID:</b> 7137	<b>SWISS:</b> P19429	<b>IHC-F</b> (1:100-500)
<b>Target:</b> Cardiac Troponin I/TNNC1		<b>IF</b> (1:100-500)
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human CTnI: 131-210/210.		<b>Flow-Cyt</b> (2ug/Test)
<b>Purification:</b> affinity purified by Protein A		<b>Reactivity:</b> Mouse, Rat (predicted: Human)
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> 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.		<b>Predicted MW.:</b> 23 kDa
<b>Background:</b> Troponin I (TnI), along with troponin T (TnT) and troponin C (TnC), is one of 3 subunits that form the troponin complex of the thin filaments of striated muscle. TnI is the inhibitory subunit; blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily contains three genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. This gene encodes the TnI-cardiac protein and is exclusively expressed in cardiac muscle tissues. Mutations in this gene cause familial hypertrophic cardiomyopathy type 7 (CMH7) and familial restrictive cardiomyopathy (RCM). [provided by RefSeq, Jul 2008]		<b>Subcellular Location:</b> Cytoplasm

**— VALIDATION IMAGES —**

Sample: Lymph node(Rat) Cell Lysate at 40 ug  
 Primary: Anti-TNNI3 (bs-0799R) at 1/300 dilution  
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
 Predicted band size: 24 kD  
 Observed band size: 24 kD



Tissue/cell: mouse 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-CTnI/Troponin I/TNNC1 Polyclonal Antibody, Unconjugated(bs-0799R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

**— SELECTED CITATIONS —**

- **[IF=11.092]** Natalie E. Jasiewicz. et al. ZipperCells Exhibit Enhanced Accumulation and Retention at the Site of Myocardial Infarction. ADV HEALTHC MATER. 2022 Nov;;2201094 IHC ;Mouse. 36349814
- **[IF=7.6]** Liu, Meifang, et al. "The use of antibody modified liposomes loaded with AMO-1 to deliver oligonucleotides to ischemic myocardium for arrhythmia therapy." Biomaterials (2014). IHC ;Rat. 24468403
- **[IF=4.938]** Du J et al. The regulation of skeletal muscle fiber-type composition by betaine is associated with

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NFATc1/MyoD.J Mol Med (Berl). 2018 Jun 6. WB ;Mouse. 29876588

- **[IF=3.53]** Zhao, Lili, Gongshe Yang, and Xin Zhao. "Rho-Associated Protein Kinases Play an Important Role in the Differentiation of Rat Adipose-Derived Stromal Cells into Cardiomyocytes In Vitro." PLoS one 9.12 (2014): e115191. Other ;Rat. 25522345
- **[IF=2.649]** Kim CW et al. Effects of cigarette smoke components on myocardial differentiation of mouse embryonic stem cells. Environ Toxicol. 2019 Sep 10. WB ;Mouse. 31507073