BOSTER BIOLOGICAL TECHNOLOGY
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Anti-cardiac Troponin C/TNNC1 Antibody Picoband®

Catalog Number: PA1779

About TNNC1

Troponin C1 (TNNC1) (troponin C type 1 (slow)), also called TROPONIN C, SLOW-TWITCH SKELETAL MUSCLE or TNC, is a protein that in humans is encoded by the TNNC1 gene. Using a "monochromosomal" hybrid panel, the TNNC1 gene is mapped to chromosome 3; subsequent analysis of the Genebridge 4 radiation hybrid panel localized the gene to 3p in a region consistent with the earlier assignment. Circular dichroism measurements revealed changes in the secondary structures of the TNNC1 mutants A8V, C84Y, and D145E.

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Overview

Product Name	Anti-cardiac Troponin C/TNNC1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-cardiac Troponin C/TNNC1 Antibody catalog # PA1779. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P63316

Technical Details

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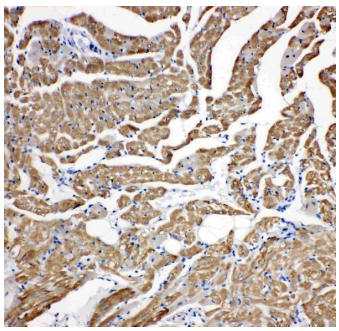
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human cardiac Troponin C, identical to the related rat and mouse sequences .
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Rat, Mouse Western blot, 0.1-0.5ug/ml, Rat, Human, Mouse

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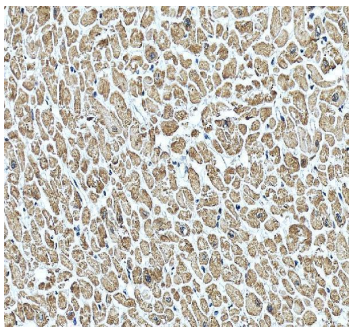
Anti-cardiac Troponin C/TNNC1 Antibody Picoband® (PA1779) Images



Anti-cardiac Troponin C antibody, PA1779, Western blottingAll lanes: Anti cardiac Troponin C (PA1779) at 0.5ug/ml WB: Rat Skeletal Muscle Tissue Lysate at 50ug Predicted bind size: 18KD Observed bind size: 18KD



Anti-cardiac Troponin C antibody, PA1779, IHC(P)IHC(P): Rat Cardiac Muscle Tissue



IHC analysis of TNNC1 using anti-TNNC1 antibody (PA1779). TNNC1 was detected in a paraffin-embedded section of human heart tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-TNNC1 Antibody (PA1779) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

1 Publications Citing This Product

1. PubMed ID: 32535058, Li C,Rong X,Qin J,Wang S.An improved two-step method for extraction and purification of primary cardiomyocytes from neonatal mice.J Pharmacol Toxicol Methods.2020 Jul-Aug;104:106887.doi:10.1016/j.vascn.2020.106887.Epub 2020 Jun 11.PMID:32535058.

Visit bosterbio.com/anti-cardiac-troponin-c-antibody-pa1779-boster.html to see all 1 publications.

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