

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.

Overview

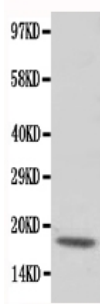
Product Name	Anti-cardiac Troponin C/TNNC1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-cardiac Troponin C/TNNC1 Antibody catalog # PA1779. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium 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 Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ . *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

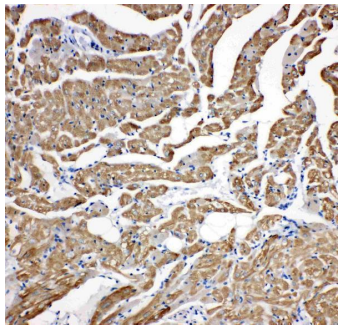
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human cardiac Troponin C, identical to the related rat and mouse sequences .
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated 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

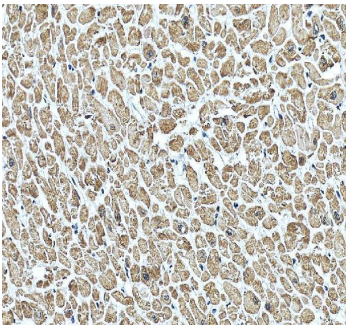
Anti-cardiac Troponin C/TNNC1 Antibody Picoband® (PA1779) Images



Anti-cardiac Troponin C antibody, PA1779, Western blotting All 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.

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