BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Cardiac FABP/FABP3 Antibody Picoband™

Catalog Number: PB9759

About FABP3

Heart-type fatty acid binding protein (hFABP), also known as mammary-derived growth inhibitor, is a protein that in humans is encoded by the FABP3 gene. The intracellular fatty acid-binding proteins (FABPs) belong to a multigene family. Fatty acid-binding protein 3 gene contains four exons and its function is to arrest growth of mammary epithelial cells. This gene is also a candidate tumor suppressor gene for human breast cancer. Cardiac-type fatty acid-binding protein (cFABP) from human heart muscle of three individuals was isolated and characterized as pI 5.3-cFABP.

Overview

Product Name	Anti-Cardiac FABP/FABP3 Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Cardiac FABP/FABP3 Antibody Picoband™ catalog # PB9759. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal G9
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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	P05413

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Cardiac FABP, identical to the related mouse and rat sequences.
Predicted Reactive Species	Hamster
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.
Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen affinity purified.

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Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Mouse, Rat, Human, By Heat Western blot, 0.1-0.5ug/ml, Rat, Human

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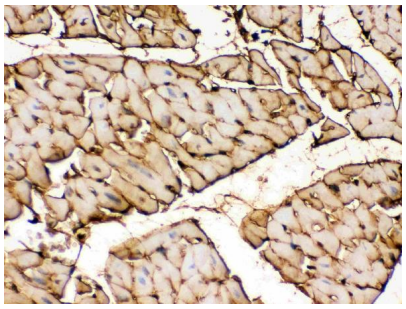
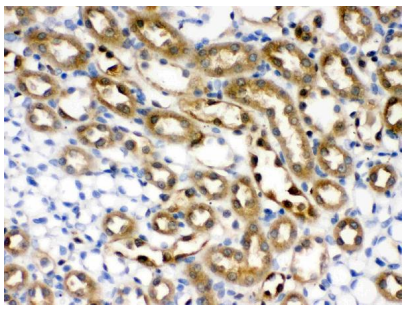
Anti-Cardiac FABP/FABP3 Antibody Picoband™ (PB9759) Images



Anti-Cardiac FABP Picoband antibody, PB9759, IHC(P)
IHC(P): Mouse Cardiac Muscle Tissue



Anti-Cardiac FABP Picoband antibody, PB9759, IHC(P)
IHC(P): Rat Kidney Tissue

Figure 1. Western blot analysis of Cardiac FABP using anti-Cardiac FABP antibody (PB9759).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: mouse heart tissue lysate,
Lane 2: mouse heart tissue lysate.
After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Cardiac FABP antigen affinity purified polyclonal antibody (Catalog # PB9759) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Cardiac FABP at approximately 15KD. The expected band size for Cardiac FABP is at 15KD.

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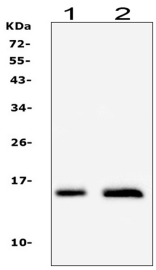

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Anti-Cardiac FABP/FABP3 Antibody ™