

Anti-Cardiac FABP/FABP3 Antibody

Catalog Number: PA1336

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) belongs 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 pl 5.3-cFABP.

Overview

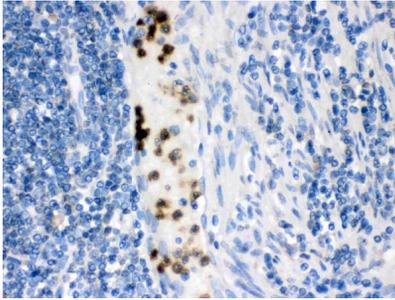
Product Name	Anti-Cardiac FABP/FABP3 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Cardiac FABP/FABP3 Antibody catalog # PA1336. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
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

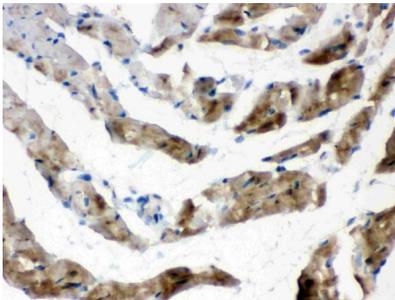
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human FABP3, different from the related mouse and rat sequences by three amino acids.
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) 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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat, By Heat</p> <p>Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat</p>

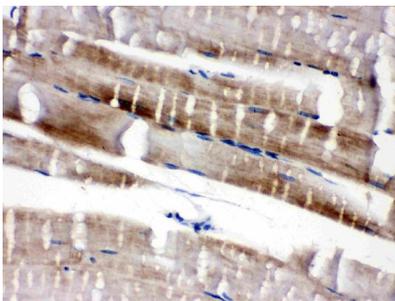
Anti-Cardiac FABP/FABP3 Antibody (PA1336) Images



Cardiac FABP was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti-Cardiac FABP Antigen Affinity purified polyclonal antibody (Catalog # PA1336) at 1 ug/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Cardiac FABP was detected in paraffin-embedded sections of rat cardiac muscle tissues using rabbit anti-Cardiac FABP Antigen Affinity purified polyclonal antibody (Catalog # PA1336) at 1 ug/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Cardiac FABP was detected in paraffin-embedded sections of mouse skeletal muscle tissues using rabbit anti-Cardiac FABP Antigen Affinity purified polyclonal antibody (Catalog # PA1336) at 1 ug/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).

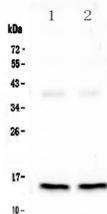


Figure 1. Western blot analysis of Cardiac FABP using anti-Cardiac FABP antibody (PA1336).

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: rat 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 # PA1336) 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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