

Anti-Cardiac FABP Picoband Antibody

Catalog # ABO12956

Product Information

Application	WB, E
Primary Accession	Fabp3: P07483
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Cardiac FABP detection. Tested with WB, ELISA(Cap) in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Application Details	Western blot, 0.1-0.5 µg/ml ELISA(Cap), 0.1-0.5 µg/ml
Subcellular Localization	Cytoplasm.
Tissue Specificity	Heart, but also skeletal muscle, kidney, brain and mammary gland.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E. coli-derived rat Cardiac FABP recombinant protein (Position: A2-A133).
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20° C for one year. After reconstitution, at 4° C for one month. It can also be aliquotted and stored frozen at -20° C for a longer time. Avoid repeated freezing and thawing.

Protein Information

Background

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.

Images

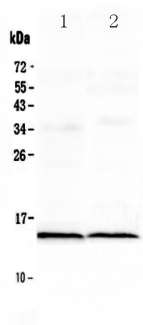


Figure 1. Western blot analysis of Cardiac FABP using anti-Cardiac FABP antibody (ABO12956). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat heart tissue lysates, Lane 2: mouse heart tissue lysates. 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 # ABO12956) 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 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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.