

Anti-Fatty Acid Binding Protein 5/FABP5 Antibody Picoband®

Catalog Number: PA1853

About Fabp5

FABP5 (fatty acid binding protein 5 (psoriasis-associated)) is a protein that in humans is encoded by the FABP5 gene, also known as PAFABP, EFABP, E-FABP, KFABP, PA-FABP, Epidermal-type fatty acid-binding protein, Fatty acid-binding protein 5, Psoriasis-associated fatty acid-binding protein homolog. It is a family of small, highly conserved, cytoplasmic proteins that bind long-chain fatty acids and other hydrophobic ligands. The PAFABP cDNA encodes a 135-amino acid protein with molecular weight 15,164. This gene encodes the fatty acid binding protein found in epidermal cells, and was first identified as being upregulated in psoriasis tissue. It is thought that FABPs roles include fatty acid uptake, transport, and metabolism. Kaczocha et al. (2009) identified FABP5 and FABP7 as cytosolic proteins that transport AEA from the plasma membrane to subcellular fatty acid amide hydrolase, where it is hydrolyzed and inactivated. FABP3 did not show this specific transport function.

Overview

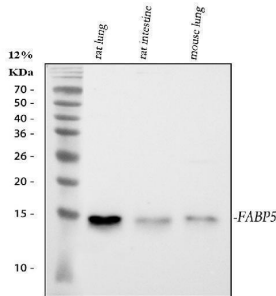
Product Name	Anti-Fatty Acid Binding Protein 5/FABP5 Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Fatty Acid Binding Protein 5/FABP5 Antibody catalog # PA1853. Tested in IHC, WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium 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, 0.01mg 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	Q05816

Technical Details

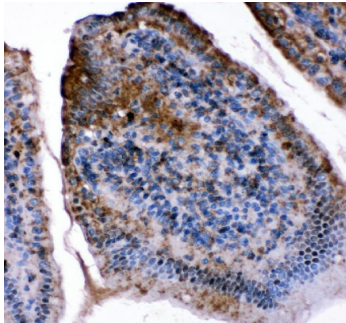
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of mouse Fatty Acid Binding Protein 5, different from the related rat sequence by two amino acids.
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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent 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	Western blot, 0.1-0.5ug/ml, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Mouse, Rat

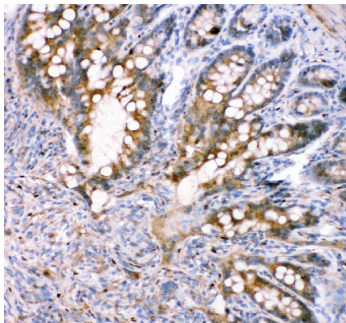
Anti-Fatty Acid Binding Protein 5/FABP5 Antibody Picoband® (PA1853) Images



Western blot analysis of FABP5 using anti-FABP5 antibody (PA1853). 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 30 ug of sample under reducing conditions. Lane 1: rat lung tissue lysates, Lane 2: rat intestine tissue lysates. Lane 3: mouse lung tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-FABP5 antigen affinity purified polyclonal antibody (Catalog # PA1853) 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 1:5000 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 FABP5 at approximately 15 kDa. The expected band size for FABP5 is at 15 kDa.



IHC analysis of FABP5 using anti-FABP5 antibody (PA1853). FABP5 was detected in a paraffin-embedded section of rat intestine 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-FABP5 Antibody (PA1853) 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.



IHC analysis of FABP5 using anti-FABP5 antibody (PA1853). FABP5 was detected in a paraffin-embedded section of mouse intestine 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-FABP5 Antibody (PA1853) 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.

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Anti-Fatty Acid Binding Protein 5/FABP5 Antibody

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