

Rabbit FABP2/I-FABP Polyclonal Antibody | anti-Fabp2 antibody

Anti-FABP2/I-FABP Picoband Antibody

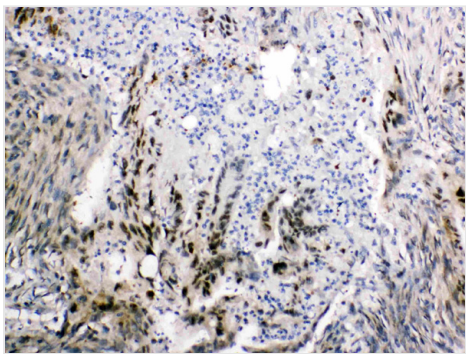
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124686	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins	Western Blot, Immunohistochemistry

PRODUCT SYNONYMS

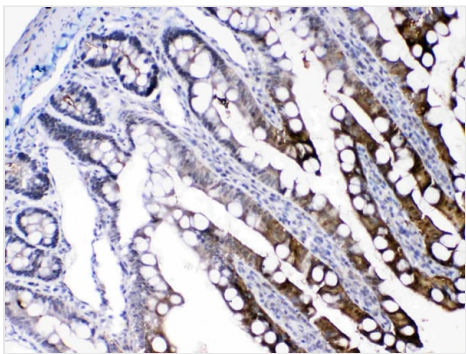
FABP2/I-FABP; Polyclonal Antibody; Anti-FABP2/I-FABP Picoband Antibody; Fatty acid-binding protein; intestinal; Fatty acid-binding protein 2; Intestinal-type fatty acid-binding protein; I-FABP; Fabp2; Fabpi; anti-Fabp2 antibody

PRODUCT SPECIFICATIONS

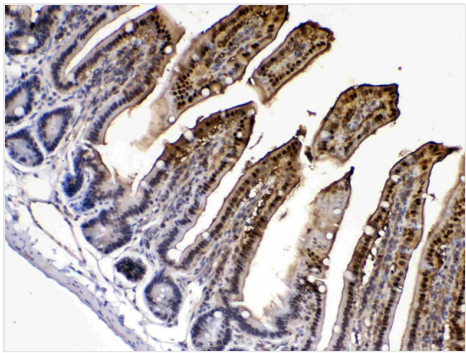
Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified
Form/Format	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml. (varies by lot)
Sequence Length	132
Applicable Applications for anti-Fabp2 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Immunogen	E Coli-derived mouse FABP2/I-FABP recombinant protein (Position: A2-E132). Mouse FABP2/I-FABP shares 77.9% and 92.4% amino acid (aa) sequence identity with human and rat FABP2/I-FABP, respectively.
Subcellular Localization	Cytoplasm.
Tissue Specificity	Expressed in the small intestine. Highest expression levels in the proximal ileum.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



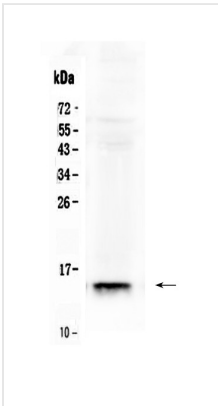
IHC (Immunohistochemistry)
Figure 4. IHC analysis of FABP2/I-FABP using anti- FABP2/I-FABP antibody (AAA124686).FABP2/I-FABP was detected in paraffin-embedded section of human intestinal cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti- FABP2/I-FABP Antibody (AAA124686) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 3. IHC analysis of FABP2/I-FABP using anti- FABP2/I-FABP antibody (AAA124686).FABP2/I-FABP was detected in paraffin-embedded section of rat intestine tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti- FABP2/I-FABP Antibody (AAA124686) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 2. IHC analysis of FABP2/I-FABP using anti- FABP2/I-FABP antibody (AAA124686).FABP2/I-FABP was detected in paraffin-embedded section of mouse intestine tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti- FABP2/I-FABP Antibody (AAA124686) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of FABP2/I-FABP using anti- FABP2/I-FABP antibody (AAA124686).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 small intestine 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- FABP2/I-FABP antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree 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 FABP2/I-FABP at approximately 15KD. The expected band size for FABP2/I-FABP is at 15KD.

ADDITIONAL INFORMATION

Related Product Information for anti-Fabp2 antibody	Description: FABP 2, Fatty acid-binding protein 2, is a protein that in humans is encoded by the FABP2 gene. Using a human cDNA probe, the gene is assigned to chromosome 4 in somatic cell hybrids. FABP 2 gene contains four exons and is an abundant cytosolic protein in small intestine epithelial cells. The FABPs belong to a multigene family with nearly twenty identified members. And FABPs are divided into at least three distinct types, namely the hepatic-, intestinal- and cardiac-type. They form 14-15 kDa proteins and are thought to participate in the uptake, intracellular metabolism and/or transport of long-chain fatty acids. Also, they may be responsible in the modulation of cell growth and proliferation. Protein Function: FABP are thought to play a role in the intracellular transport of long-chain fatty acids and their acyl-CoA esters. FABP2 is probably involved in triglyceride-rich lipoprotein synthesis. Binds saturated long-chain fatty acids with a high affinity, but binds with a lower affinity to unsaturated long- chain fatty acids. FABP2 may also help maintain energy homeostasis by functioning as a lipid sensor.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6679737
NCBI GeneID	14079
NCBI Accession #	NP_032006.1
NCBI GenBank Nucleotide #	NM_007980.3
UniProt Accession #	P55050
Molecular Weight	15126 MW
NCBI Official Full Name	fatty acid-binding protein, intestinal
NCBI Official Synonym Full Names	fatty acid binding protein 2, intestinal
NCBI Official Symbol	Fabp2
NCBI Official Synonym Symbols	Fabpi; I-FABP
NCBI Protein Information	fatty acid-binding protein, intestinal
UniProt Protein Name	Fatty acid-binding protein, intestinal
UniProt Gene Name	Fabp2
UniProt Synonym Gene Names	Fabpi; I-FABP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/fabp2-i-fabp-antibody-western-blot-immunohistochemistry-elisa/124686>