

Anti-FABP2/I-FABP Picoband Antibody

Catalog # ABO12628

Product Information

Application	WB, IHC, IHC-P, IF, IC, ICC
Primary Accession	P12104
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Fatty acid-binding protein, intestinal(FABP2) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	2169
Other Names	Fatty acid-binding protein, intestinal, Fatty acid-binding protein 2, Intestinal-type fatty acid-binding protein, I-FABP, FABP2, FABPI
Calculated MW	15237
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 μ g/ml, Human
Subcellular Localization	Cytoplasm.
Tissue Specificity	Expressed in the small intestine and at much lower levels in the large intestine. Highest expression levels in the jejunum. .
Source	Eukaryota
Protein Name	Fatty acid-binding protein, intestinal
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ N.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human FABP2/I-FABP (2-38aa AFDSTWKVDRSENYDKFMEKMGVNIVKRKLAHDNLK), different from the related mouse sequence by seven amino acids, and from the related rat sequence by six amino acids
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

Name	FABP2
Synonyms	FABPI
Function	FABPs 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.
Cellular Location	Cytoplasm.
Tissue Location	Expressed in the small intestine and at much lower levels in the large intestine. Highest expression levels in the jejunum.

Background

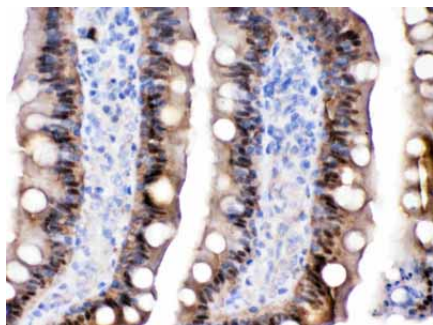
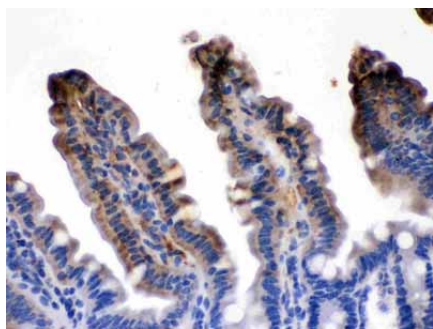
FABP 2, Fatty acid-binding protein 2, is a protein that in humans is encoded by the FABP2 gene. Using a human cDNA probe, the gene is assigned to chromosome 4 in somatic cell hybrids. FABP 2 gene contains four exons and is an abundant cytosolic protein in small intestine epithelial cells. The FABPs belong 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.

Images

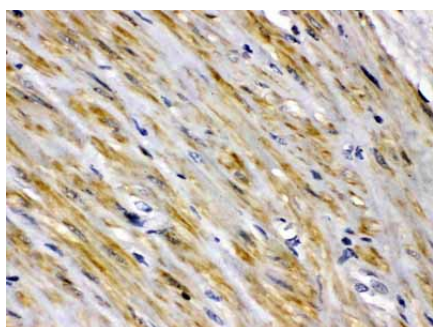


Western blot analysis of FABP2/I-FABP expression in SW620 whole cell lysates (lane 1). FABP2/I-FABP at 15KD was detected using rabbit anti- FABP2/I-FABP Antigen Affinity purified polyclonal antibody (Catalog # ABO12628) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

FABP2/I-FABP was detected in paraffin-embedded sections of mouse intestine tissues using rabbit anti- FABP2/I-FABP Antigen Affinity purified polyclonal antibody (Catalog # ABO12628) at 1 µg/mL. The immunohistochemical section was developed using SABC method .



FABP2/I-FABP was detected in paraffin-embedded sections of rat intestine tissues using rabbit anti-FABP2/I-FABP Antigen Affinity purified polyclonal antibody (Catalog # ABO12628) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .



FABP2/I-FABP was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- FABP2/I-FABP Antigen Affinity purified polyclonal antibody (Catalog # ABO12628) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .

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