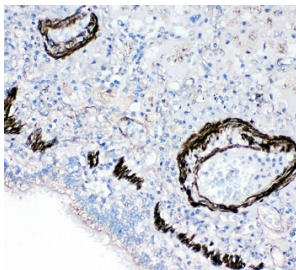


FABP6 Antibody / Bile Acid Binding Protein Antibody (R31278)

Catalog No.	Formulation	Size
R31278	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P51161
Applications	Western Blot : 0.5-1ug/ml IHC (FFPE) : 0.5-1ug/ml
Limitations	This FABP6 Antibody / Bile Acid Binding Protein Antibody is available for research use only.



FABP6 Antibody Human Lung Cancer IHC. Immunohistochemical staining of human lung cancer tissue demonstrates FABP6 expression using a FABP6 antibody. FABP6, also known as Bile Acid Binding Protein and Ileal Lipid Binding Protein, is an intracellular transporter involved in bile acid trafficking and lipid metabolism. Predominantly membranous and cytoplasmic staining is observed in malignant epithelial cells, consistent with the metabolic adaptations and altered lipid handling associated with tumor progression. These findings support emerging evidence linking FABP6 expression to cancer metabolism and cellular signaling pathways regulated by bile acids. The results demonstrate the utility of FABP6 Antibody for studies of bile acid transport, metabolic regulation, and tumor biology.



FABP6 Antibody Human Colon Cancer Cells WB. Western blot analysis of FABP6 expression using a FABP6 antibody at 0.5 ug/ml. Lane 1: human COLO320 cell lysate. Lane 2: human SW620 cell lysate. FABP6, also known as Bile Acid Binding Protein and Ileal Lipid Binding Protein, is an intracellular transporter involved in bile acid recycling and lipid homeostasis. A prominent band is detected at approximately 15 kDa in both cell lines, corresponding to the expected molecular weight of FABP6 isoform 1. Although a second isoform of approximately 20 kDa has been reported, only the lower molecular weight species is evident under these conditions. These results demonstrate endogenous expression of FABP6 in human colon cancer cells and support the utility of FABP6 Antibody for studies of bile acid transport, metabolic regulation, and cancer biology.

Description

FABP6 Antibody / Bile Acid Binding Protein Antibody recognizes FABP6, a member of the fatty acid binding protein family that functions primarily as an intracellular transporter of bile acids and other hydrophobic molecules. Also known as Ileal Lipid Binding Protein and Gastrotropin, FABP6 is highly expressed in the distal small intestine where it facilitates the intracellular trafficking and recycling of bile acids during enterohepatic circulation. By binding bile salts and lipid metabolites, FABP6 contributes to nutrient absorption, lipid homeostasis, and maintenance of intestinal physiology. Although originally classified as Fatty Acid Binding Protein 6, FABP6 displays a particularly high affinity for bile acids and is therefore regarded as a specialized Bile Acid Binding Protein.

FABP6 functions in concert with membrane transporters and nuclear receptors that regulate bile acid synthesis and signaling. Following uptake from the intestinal lumen, bile acids are transported across enterocytes and recycled to the liver, where they support lipid digestion and cholesterol metabolism. Through interactions with farnesoid X receptor and other metabolic regulators, FABP6 influences pathways involved in energy balance, inflammation, and glucose homeostasis. In addition to its role in nutrient processing, bile acids act as signaling molecules that regulate diverse physiological processes, highlighting the importance of FABP6 in metabolic control.

Altered expression of FABP6 has been associated with gastrointestinal disorders, cholestatic liver disease, inflammatory bowel disease, and metabolic syndrome. Abnormal bile acid homeostasis contributes to chronic inflammation and disturbances in lipid metabolism, and dysregulated FABP6 expression has been reported in colorectal cancer, gastric cancer, and other malignancies. Increased expression of FABP6 may promote tumor growth by supporting metabolic adaptation and bile acid mediated signaling pathways. Consequently, FABP6 has emerged as a biomarker of intestinal differentiation and a potential target for studies of metabolism and gastrointestinal disease.

Beyond the intestine, FABP6 contributes to broader pathways regulating cellular lipid metabolism and metabolic adaptation. Interactions with bile acid signaling networks influence mitochondrial function, oxidative stress responses, and inflammatory pathways. The ability of bile acids to function as endocrine signaling molecules further underscores the importance of FABP6 in coordinating communication between the intestine, liver, and other organs. Because disturbances in bile acid metabolism have been implicated in obesity, diabetes, and cancer, FABP6 has attracted increasing attention in translational research.

FABP6 Antibody / Bile Acid Binding Protein Antibody is useful for investigations of bile acid transport, lipid metabolism, intestinal physiology, and metabolic disease. Published studies have utilized FABP6 antibodies to examine nutrient absorption and gastrointestinal homeostasis. The ability to detect endogenous FABP6 makes this antibody a valuable tool for studies of enterohepatic circulation, cancer metabolism, and disorders affecting bile acid signaling.

Learn more about proteins involved in lipid metabolism, nutrient transport, and energy homeostasis by visiting our [Metabolism Antibodies](#) page, featuring FABP6 antibodies and other regulators of bile acid signaling and metabolic function.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the FABP6 Antibody / Bile Acid Binding Protein Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the N-terminus of human Fatty acid binding protein 6 (YDEFMKLLGISSDVIEKAR) was used as the immunogen for this FABP6 antibody.

Storage

After reconstitution, the FABP6 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

Ileal Lipid Binding Protein Antibody, Gastrotropin Antibody, Ileal Fatty Acid Binding Protein Antibody, Intestinal Lipid Binding Protein Antibody, Enterocyte Lipid Binding Protein Antibody, Bile Salt Binding Protein Antibody, Cellular Bile Acid Binding Protein Antibody