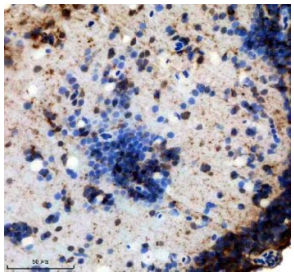
Zebrafish FABP6 Antibody / Ileal Lipid Binding Protein Antibody (RZ1453)

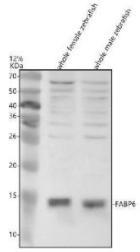
Catalog No.	Formulation	Size
RZ1453	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Species Reactivity	Zebrafish
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Lyophilized from a buffered saline solution containing 2% trehalose. Reconstitute with 0.2 mL distilled water to yield a final antibody concentration of 500 ug/mL.
UniProt	Q6IMW5
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml
Limitations	This Zebrafish FABP6 Antibody / Ileal Lipid Binding Protein Antibody is available for research use only.



Zebrafish FABP6 Antibody Brain IHC. Immunohistochemical analysis of FABP6 expression using anti-FABP6 antibody in paraffin embedded zebrafish brain tissue. FABP6, also known as Ileal Lipid Binding Protein and Gastrotropin, is a member of the fatty acid binding protein family that mediates intracellular transport of bile acids and other hydrophobic molecules involved in lipid metabolism. Distinct cytoplasmic staining is observed in neuronal and surrounding cells, suggesting expression of FABP6 in the zebrafish nervous system and supporting emerging roles for bile acid signaling in neural physiology. Heat mediated antigen retrieval was performed in EDTA buffer prior to staining. Sections were blocked with 10 percent goat serum and incubated with FABP6 antibody at 2 ug/ml overnight at 4 degrees Celsius. Detection was achieved using a peroxidase conjugated goat anti rabbit IgG secondary antibody and DAB chromogen. These results support the utility of Zebrafish FABP6 Antibody for studies of lipid metabolism, bile acid signaling, and developmental biology.



Zebrafish FABP6 Antibody WB. Western blot analysis of FABP6 expression using anti-FABP6 antibody. FABP6, also known as Ileal Lipid Binding Protein and Gastrotropin, is a member of the fatty acid binding protein family that mediates intracellular transport of bile acids and contributes to lipid homeostasis. Lane 1: whole female zebrafish tissue lysate. Lane 2: whole male zebrafish tissue lysate. A prominent band was detected at approximately 14 kDa, corresponding to the expected molecular weight of FABP6. Several faint higher molecular weight bands are also visible and may represent oligomeric species, post translationally modified forms, or nonspecific low abundance proteins. These results demonstrate expression of FABP6 in adult zebrafish tissues and support the utility of this antibody for studies of bile acid transport, lipid metabolism, and gastrointestinal physiology.

Description

Zebrafish FABP6 Antibody / Ileal Lipid Binding Protein Antibody recognizes FABP6, a member of the fatty acid binding protein family that functions primarily in the intracellular transport of bile acids and lipids. Also known as gastrotropin or ileal fatty acid binding protein, FABP6 binds bile salts and hydrophobic molecules, facilitating their movement within enterocytes and contributing to efficient nutrient absorption. Through its interactions with bile acids, FABP6 participates in enterohepatic circulation and lipid homeostasis. The protein plays an important role in maintaining intestinal physiology and regulating the intracellular trafficking of lipid metabolites.

In zebrafish, FABP6 is expressed predominantly in the intestine and contributes to digestive processes and nutrient utilization. Conserved pathways controlling bile acid metabolism and lipid absorption make zebrafish an excellent model for investigating gastrointestinal physiology and metabolic regulation. FABP6 functions together with membrane transporters and nuclear receptors involved in bile acid signaling to coordinate lipid processing and maintain metabolic homeostasis. These pathways are essential for growth, energy balance, and normal tissue function.

Beyond its role in lipid transport, FABP6 participates in signaling pathways influenced by bile acids and metabolic regulators. Alterations in bile acid homeostasis have been linked to intestinal inflammation, metabolic disorders, and liver disease. Abnormal expression of FABP6 has also been reported in gastrointestinal malignancies and disorders affecting nutrient absorption. Because bile acids serve as signaling molecules that regulate metabolism and inflammation, FABP6 has emerged as an important target for studies of digestive physiology and disease mechanisms.

Zebrafish FABP6 Antibody / Ileal Lipid Binding Protein Antibody is useful for investigations of lipid metabolism, bile acid transport, intestinal physiology, and developmental biology. The evolutionary conservation of bile acid handling pathways makes zebrafish an effective model for understanding nutrient absorption, metabolic homeostasis, and gastrointestinal disease. Consequently, FABP6 serves as an important marker for studies of digestive function and lipid metabolism.

Explore our FABP6 Antibody page for additional antibodies against this Bile Acid Binding Protein, including reagents for studies of bile acid transport, enterohepatic circulation, and metabolic homeostasis.

This Zebrafish antibody is part of a broader Zebrafish / Danio rerio antibody panel offered by NSJ Bioreagents.

Application Notes

The optimal working dilution of the Zebrafish FABP6 Antibody / Ileal Lipid Binding Protein Antibody should be determined empirically by the investigator.

Immunogen

An E.coli-derived Zebrafish FABP6 recombinant protein (amino acids P25-V131) was used as the immunogen for the Zebrafish FABP6 Antibody.

Storage

After reconstitution, the Zebrafish 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

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