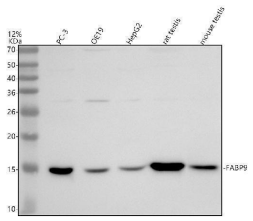
FABP9 Antibody / Fatty acid-binding protein 9 Antibody (FY13670)

Catalog No.	Formulation	Size
FY13670	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	Q0Z7S8
Applications	Western blot: 0.5-1ug/ml ELISA: 0.1-0.5 ug/ml
Limitations	Intended solely for research purposes, this FABP9 Antibody / Fatty acid-binding protein 9 Antibody is not for clinical use.



FABP9 Antibody by WB in Human and Rodent Lysates. Western blot analysis of FABP9 using FABP9 Antibody and Fatty acid-binding protein 9 Antibody. Lanes 1-5 contain PC-3, OE19, HepG2, rat testis, and mouse testis lysates, respectively. The image shows a principal immunoreactive band at approximately 15 kDa in all five lanes, matching the expected molecular weight. Each lane was loaded with 30 ug of sample under reducing conditions and separated by 12% SDS-PAGE. Following transfer to nitrocellulose and blocking with 5% non-fat milk, the membrane was incubated with primary antibody at 0.5 ug/ml overnight at 4oC. HRP-mediated chemiluminescence was used for detection.

Description

FABP9 Antibody / Fatty acid-binding protein 9 Antibody targets FABP9, a member of the intracellular fatty acid-binding protein family. FABPs are small proteins with a conserved beta-barrel fold that accommodates hydrophobic ligands within an internal binding cavity. By interacting with fatty acids and related lipids, family members can influence intracellular lipid availability, movement, and signaling. Despite their structural similarities, different FABPs have distinct expression patterns and physiological roles.

FABP9 is also known as testis fatty acid-binding protein and has been studied in relation to male germ-cell biology. Developing germ cells undergo extensive changes in membrane composition and cellular architecture as they progress

toward mature spermatozoa. Lipid-binding proteins may help organize the availability of fatty acids required for membrane remodeling, energy metabolism, and specialized cellular structures. The precise endogenous ligands and trafficking functions of FABP9, however, are not as fully established as those of some widely studied FABP family members.

Spermatogenesis requires coordinated transitions in gene expression, chromatin organization, cytoskeletal structure, and lipid handling. Lipid metabolism is especially important during the formation of the acrosome and flagellum and during changes in the plasma membrane that accompany sperm maturation. The presence of a fatty acid-binding protein in this setting suggests a possible connection between lipid availability and germ-cell differentiation, but its individual contribution must be distinguished from those of other lipid-binding and transport proteins.

NSJ Bioreagents offers this FABP9 Antibody to support investigations of FABP9 in germ-cell development and the organization of intracellular lipid-binding systems. Determining its ligand preferences and molecular partners may clarify how lipid-handling proteins contribute to the structural changes required for sperm formation.

Explore related research targets in our Metabolism Antibody / Metabolism Antibodies collection.

Application Notes

Working dilutions of the FABP9 Antibody / Fatty acid-binding protein 9 Antibody may require optimization according to the experimental protocol.

Immunogen

The FABP9 Antibody was generated using e. coli-derived human FABP9 recombinant protein (amino acids S13-V132).

Storage

Following reconstitution, the FABP9 Antibody can be kept at 4oC for one month. Aliquot for extended storage at -20oC for up to six months, avoiding repeated freezing and thawing.

Alternate Names

FABP9 antibody, Fatty acid-binding protein 9 antibody, fatty acid binding protein 9 antibody, Testis lipid-binding protein antibody, TLBP antibody, Testis-type fatty acid-binding protein antibody, T-FABP antibody

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