

For Research Use Only

# FABP9 Polyclonal antibody, PBS Only

Catalog Number: 31896-1-PBS



## Basic Information

Catalog Number:

31896-1-PBS

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG35224

GenBank Accession Number:

NM\_001080526

GeneID (NCBI):

646480

UNIPROT ID:

Q0Z758

Full Name:

fatty acid binding protein 9, testis

Calculated MW:

15 kDa

Observed MW:

15 kDa

Purification Method:

Antigen affinity Purification

## Applications

Tested Applications:

WB, IHC, Indirect ELISA

Species Specificity:

human, mouse, rat

## Background Information

FABP9 (Fatty Acid-Binding Protein 9) is a cytoplasmic protein and a member of the fatty acid-binding protein superfamily. It is specifically and highly expressed in testicular tissue and plays a critical role in the differentiation of male germ cells. This protein reversibly binds hydrophobic ligands such as fatty acids and retinol, mediating intracellular lipid transport and metabolic regulation. During spermatogenesis, FABP9 maintains the attachment of the acrosome to the sperm nucleus, which is essential for fertilization. Recent studies have revealed that FABP9 is significantly overexpressed in various tumors, including prostate cancer and breast cancer, where it promotes tumor progression through lipid metabolism reprogramming and regulation of the G2/M checkpoint. Its expression is associated with poor patient prognosis, making it a potential diagnostic biomarker and therapeutic target.

## Storage

Storage:

Store at -80°C.

**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

Storage Buffer:

PBS only, pH7.3

For technical support and original validation data for this product please contact:

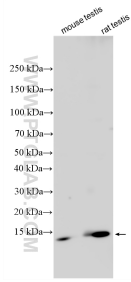
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

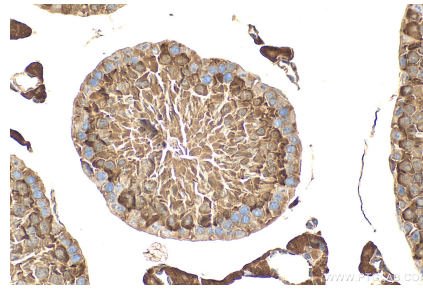
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 31896-1-AP (FABP9 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 31896-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 31896-1-AP (FABP9 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 31896-1-PBS in a different storage buffer formulation.