

For Research Use Only

FABP9 Polyclonal antibody

Catalog Number: 31896-1-AP



Basic Information

Catalog Number: 31896-1-AP	GenBank Accession Number: NM_001080526	Purification Method: Antigen affinity Purification
Source: Rabbit	GeneID (NCBI): 646480	Recommended Dilutions: WB: 1:2000-1:10000 IHC: 1:50-1:500
Isotype: IgG	UNIPROT ID: Q0Z758	
Immunogen Catalog Number: AG35224	Full Name: fatty acid binding protein 9, testis	
	Calculated MW: 15 kDa	
	Observed MW: 15 kDa	

Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse testis tissue, rat testis tissue

IHC : mouse testis tissue,

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 -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

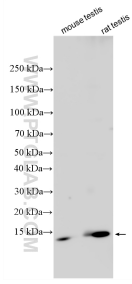
T: 4006900926

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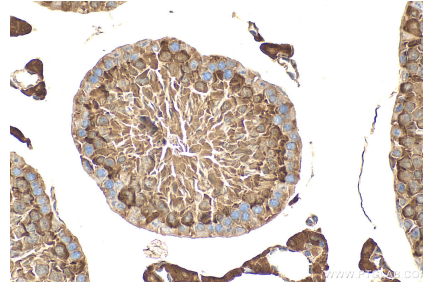
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Selected Validation Data



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.



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).