

For Research Use Only

FADS2 Monoclonal antibody

Catalog Number: 68026-1-Ig **2 Publications**



Basic Information

Catalog Number: 68026-1-Ig	GenBank Accession Number: BC009011	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 9415	CloneNo.: 1G4B10
Source: Mouse	Full Name: fatty acid desaturase 2	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000
Isotype: IgG2b	Calculated MW: 445 aa, 49 kDa	
Immunogen Catalog Number: AG27715	Observed MW: 42-45 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Cited Applications: IHC, WB	WB : PC-3 cells, A549 cells, LNCaP cells, U2OS cells, Jurkat cells, rat liver tissue
Species Specificity: Human, Mouse, Rat	IHC : mouse liver tissue,
Cited Species: human, mouse	

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

Background Information

Fatty acid desaturase 2 (FADS2) is responsible for the first desaturation reaction in the synthesis of highly unsaturated fatty acids (HUFAs), such as arachidonic acid (20:4n-6) and eicosapentaenoic acid (20:5n-3), and is involved in Mead acid (20:3n-9) production during essential fatty acid deficiency (EFAD) (PMID: 29353041). This is important when temperatures changes and the membrane is under distress. It has 4 isoforms produced by alternative splicing.

Notable Publications

Author	Pubmed ID	Journal	Application
Haiying Ran	37269196	Proteomics	WB
Feng Zhang	36911415	Front Genet	IHC

Storage

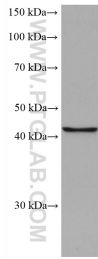
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

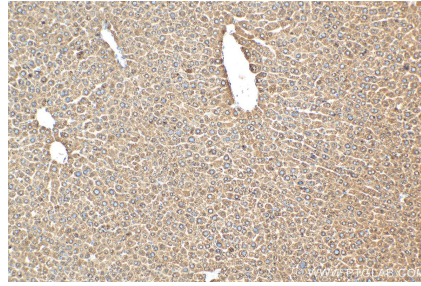
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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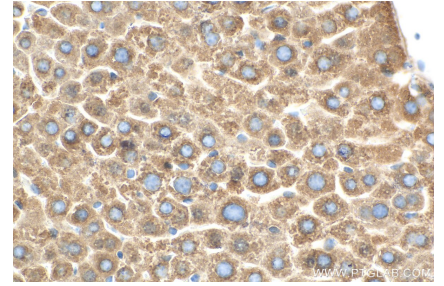
Selected Validation Data



PC-3 cells were subjected to SDS PAGE followed by western blot with 68026-1-Ig (FADS2-Specific antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 68026-1-Ig (FADS2-Specific antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 68026-1-Ig (FADS2-Specific antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).