

For Research Use Only

# FADS2 Monoclonal antibody

Catalog Number: 68026-1-Ig **4 Publications**



## Basic Information

<b>Catalog Number:</b> 68026-1-Ig	<b>GenBank Accession Number:</b> BC009011	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 9415	<b>CloneNo.:</b> 1G4B10
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> O95864	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:1000-1:4000
<b>Isotype:</b> IgG2b	<b>Full Name:</b> fatty acid desaturase 2	
<b>Immunogen Catalog Number:</b> AG27715	<b>Calculated MW:</b> 445 aa, 49 kDa	
	<b>Observed MW:</b> 42-45 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IHC	<b>WB :</b> PC-3 cells, A549 cells, LNCaP cells, U2OS cells, Jurkat cells, rat liver tissue
<b>Species Specificity:</b> Human, Mouse, Rat	<b>IHC :</b> mouse liver tissue,
<b>Cited Species:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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
Di Guo	39120151	FASEB J	WB
Toshikatsu Ikeda	38849435	Sci Rep	WB
Haiying Ran	37269196	Proteomics	WB

## Storage

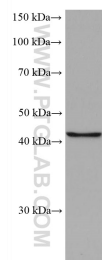
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

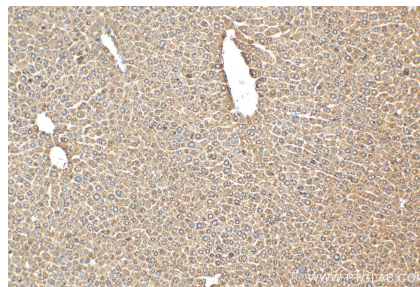
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

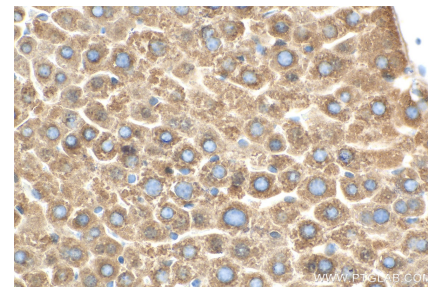
## Selected Validation Data



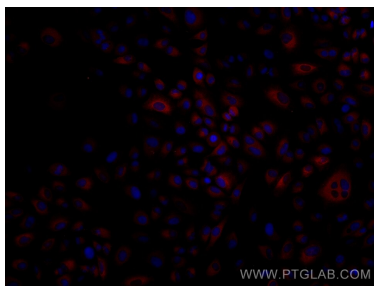
PC-3 cells were subjected to SDS PAGE followed by western blot with 68026-1-Ig (FADS2-Specific antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



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).



Immunofluorescent analysis of (4% PFA) fixed A549 cells using FADS2 antibody (68026-1-Ig, Clone: 1G4B10 ) at dilution of 1:1000 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004 ).