

For Research Use Only

# FADS1 Polyclonal antibody

Catalog Number: 10627-1-AP **9 Publications**



## Basic Information

<b>Catalog Number:</b> 10627-1-AP	<b>GenBank Accession Number:</b> BC007846	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3992	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:50-1:500 IF 1:20-1:400
<b>Source:</b> Rabbit	<b>Full Name:</b> fatty acid desaturase 1	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 52 kDa	
<b>Immunogen Catalog Number:</b> AG0978	<b>Observed MW:</b> 52 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b> WB : LO2 cells, HeLa cells, Jurkat cells, mouse liver tissue IHC : human colon cancer tissue, human lung cancer tissue, human endometrial cancer tissue IF : SH-SY5Y cells,
<b>Cited Applications:</b> IF, IHC, WB	
<b>Species Specificity:</b> human, mouse	
<b>Cited Species:</b> human, chicken, 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

FADS1, also known as Delta-5 desaturase or D5D, is a 444 amino acid protein that belongs to the fatty acid desaturase (FADS) gene family. Desaturase enzymes regulate unsaturation of fatty acids through the introduction of double bonds between defined carbons of the fatty acyl chain. FADS1 is a key enzyme in polyunsaturated fatty acid (PUFA) metabolism that catalyze the conversion of linoleic acid (LA) into arachidonic acid (AA) and that of alpha-linolenic acid (ALA) into eicosapentaenoic acid (EPA).

## Notable Publications

Author	Pubmed ID	Journal	Application
Fangdong Jiao	32982427	Cancer Manag Res	WB
Haiqing Luo	34486791	Stem Cells	IHC
Dong Wang	27390597	J Cancer	IHC

## Storage

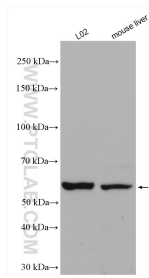
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

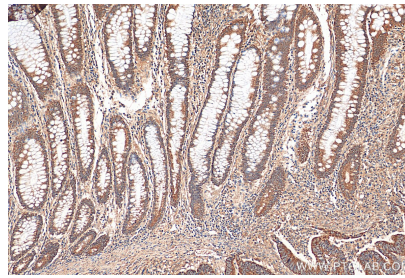
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

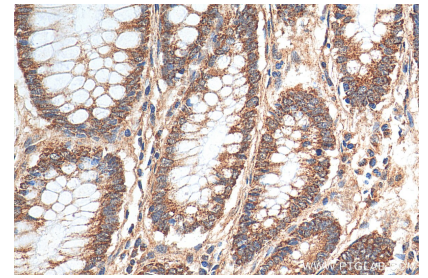
## Selected Validation Data



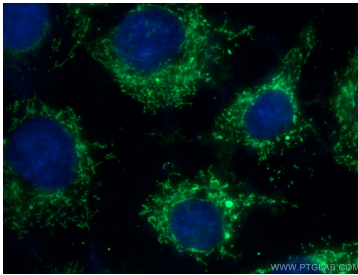
Various lysates were subjected to SDS PAGE followed by western blot with 10627-1-AP (FADS1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10627-1-AP (FADS1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10627-1-AP (FADS1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using 10627-1-AP (FADS1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).