

For Research Use Only

FADS1 Polyclonal antibody

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



Basic Information

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| Catalog Number: 10627-1-AP | GenBank Accession Number: BC007846 | Purification Method: Antigen affinity purification |
| Size: 500 µg/ml | GeneID (NCBI): 3992 | Recommended Dilutions: WB 1:1000-1:6000 |
| Source: Rabbit | UNIPROT ID: O60427 | IHC 1:50-1:500 |
| Isotype: IgG | Full Name: fatty acid desaturase 1 | IF 1:20-1:400 |
| Immunogen Catalog Number: AG0978 | Calculated MW: 52 kDa | |
| | Observed MW: 52 kDa | |

Applications

Tested Applications:
IF/ICC, IHC, WB, ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
human, mouse

Cited Species:
human, chicken, mouse

Positive Controls:

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,

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

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

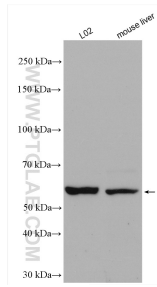
T: 4006900926

E: Proteintech-CN@ptglab.com

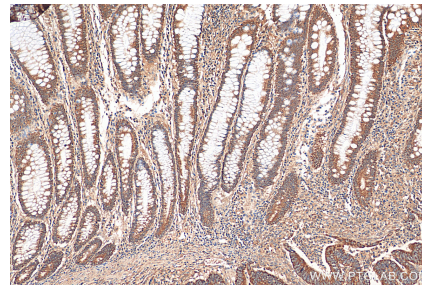
W: ptgcn.com

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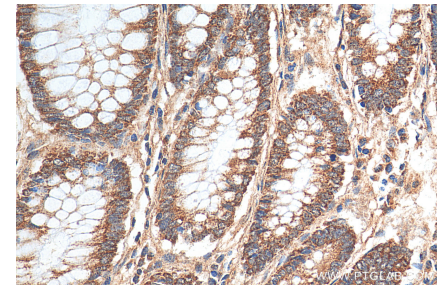
Selected Validation Data



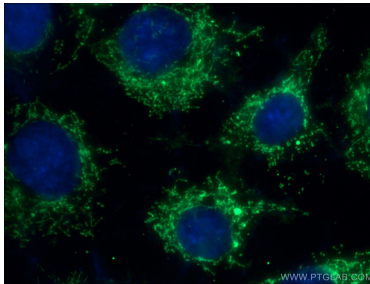
Various lysates were subjected to SDS PAGE followed by western blot with 10627-1-AP (FADS1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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).