FADS1 Polyclonal antibody

Catalog Number: 10627-1-AP

Basic Information

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

Applications

- **Tested Applications:** IF, IHC, WB, ELISA
- **Cited Applications:** IF, IHC, WB
- **Species Specificity:** human, mouse
- **Cited Species:** 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

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<th>Author</th>
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<td>Fangdong Jiao</td>
<td>32982427</td>
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<td>Dong Wang</td>
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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:

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W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Various lysates were subjected to SDS PAGE followed by western blot with 10627-1-AP (FADS1 antibody) at a 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 a 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 a 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 a dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).