

For Research Use Only

# FADS2 Polyclonal antibody

Catalog Number: 28034-1-AP

Featured Product

4 Publications



## Basic Information

**Catalog Number:**

28034-1-AP

**Size:**

150ul, Concentration: 240 µg/ml by Nanodrop and 233 µg/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG27709

**GenBank Accession Number:**

BC009011

**GeneID (NCBI):**

9415

**UNIPROT ID:**

O95864

**Full Name:**

fatty acid desaturase 2

**Calculated MW:**

445 aa, 49 kDa

**Observed MW:**

46-52 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

IHC 1:50-1:500

## Applications

**Tested Applications:**

WB, IHC, ELISA

**Cited Applications:**

WB

**Species Specificity:**

Human, Mouse, Rat

**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**

**Positive Controls:**

WB : L02 cells, mouse liver tissue, rat liver tissue

IHC : mouse heart tissue,

## 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 and can be detected as 46-52 kDa.

## Notable Publications

| Author         | Pubmed ID | Journal             | Application |
|----------------|-----------|---------------------|-------------|
| Daisuke Yamane | 34520742  | Cell Chem Biol      | WB          |
| Ge Liu         | 31199678  | FASEB J             | WB          |
| Zhu Zhu        | 37696143  | Int Immunopharmacol | 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

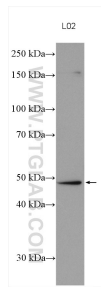
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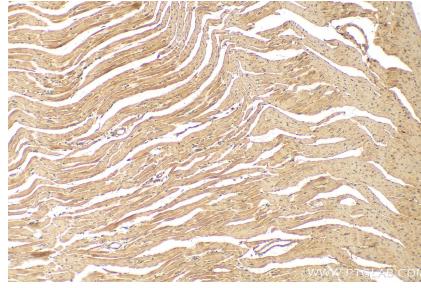
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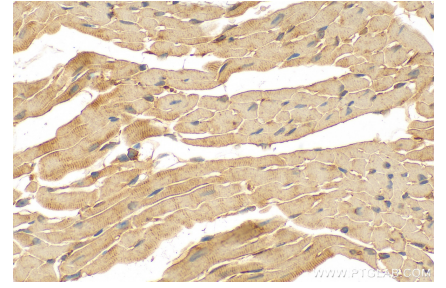
## Selected Validation Data



L02 cells were subjected to SDS PAGE followed by western blot with 28034-1-AP (FADS2-Specific antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 28034-1-AP (FADS2 antibody) at dilution of 1:100 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 28034-1-AP (FADS2 antibody) at dilution of 1:100 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).