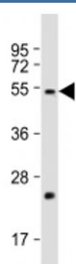


## FADS2 Antibody (F54077)

| Catalog No.   | Formulation                                | Size    |
|---------------|--------------------------------------------|---------|
| F54077-0.2ML  | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.2 ml  |
| F54077-0.05ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.05 ml |

[Bulk quote request](#)

|                           |                                                         |
|---------------------------|---------------------------------------------------------|
| <b>Availability</b>       | 1-3 business days                                       |
| <b>Species Reactivity</b> | Human                                                   |
| <b>Format</b>             | Purified                                                |
| <b>Clonality</b>          | Polyclonal (rabbit origin)                              |
| <b>Isotype</b>            | Rabbit Ig                                               |
| <b>Purity</b>             | Protein A affinity                                      |
| <b>UniProt</b>            | O95864                                                  |
| <b>Applications</b>       | Western Blot : 1:2000                                   |
| <b>Limitations</b>        | This FADS2 antibody is available for research use only. |



Western blot testing of FADS2 antibody at 1:2000 + human liver lysate. Predicted molecular weight ~52 kDa.

## Description

Component of a lipid metabolic pathway that catalyzes biosynthesis of highly unsaturated fatty acids (HUFA) from precursor essential polyunsaturated fatty acids (PUFA) linoleic acid (LA) (18:2n-6) and alpha-linolenic acid (ALA) (18:3n-3). Catalyzes the first and rate limiting step in this pathway which is the desaturation of LA (18:2n-6) and ALA (18:3n-3) into gamma- linoleic acid (GLA) (18:3n-6) and stearidonic acid (18:4n-3) respectively and other desaturation steps. Highly unsaturated fatty acids (HUFA) play pivotal roles in many biological functions. It catalyzes as well the introduction of a cis double bond in palmitate to produce the mono-unsaturated fatty acid sapienate, the most abundant fatty acid in sebum. [UniProt]

## Application Notes

The stated application concentrations are suggested starting points. Titration of the FADS2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

Recombinant human FADS2 was used as the immunogen for the FADS2 antibody.

## Storage

Aliquot the FADS2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.