

## Anti-FADS1 Polyclonal Antibody

### Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human,Dog,Pig,Cow)
Molecular Weight:	Theoretical: 49 kDa. Actual: 50 kDa.
Purification:	Protein A purified

### Applications

Verified Activity:	<p>1. Sample: Lane 1: Mouse Cerebrum tissue lysates Lane 2: Mouse Heart tissue lysates Lane 3: Rat Cerebrum tissue lysates Primary: Anti-FADS1 (TMAB-05802) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 49 kDa Observed band size: 46 kDa</p> <p>2. Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (FADS1) Polyclonal Antibody, Unconjugated (TMAB-05802) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.</p> <p>3. Sample: Adrenal gland (Mouse) Lysate at 40 µg Primary: Anti-FADS1 (TMAB-05802) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 49 kD Observed band size: 50 kD</p> <p>4. Sample: Liver (Mouse) Lysate at 40 µg Primary: Anti-FADS1 (TMAB-05802) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 49 kD Observed band size: 50 kD</p>
Application:	WB,IHC-P,IHC-Fr,IF
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human FADS1  
Antigen Species: Human  
Gene ID: 3992  
Uniprot ID: O60427

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### Research Background

FADS1 is a component of a lipid metabolic pathway that catalyzes biosynthesis of highly unsaturated fatty acids from precursor essential polyunsaturated fatty acids, linoleic acid and alpha-linolenic acid. It catalyzes the desaturation of dihomo gamma linoleic acid and eicosatetraenoic acid to generate arachidonic acid and eicosapentaenoic acid respectively.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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