

For Research Use Only

# FADS2-Specific Recombinant antibody

Catalog Number: 84527-4-RR



## Basic Information

<b>Catalog Number:</b> 84527-4-RR	<b>GenBank Accession Number:</b> BC009011	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 9415	<b>CloneNo.:</b> 241863D2
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O95864	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG	<b>Full Name:</b> fatty acid desaturase 2	
<b>Immunogen Catalog Number:</b> AG27715	<b>Calculated MW:</b> 445 aa, 49 kDa	
	<b>Observed MW:</b> 45 kDa	

## Applications

**Tested Applications:**  
WB, ELISA

**Species Specificity:**  
human, mouse, rat

**Positive Controls:**

WB : L02 cells, Jurkat cells, mouse liver tissue, LNCaP cells, A549 cells, PC-3 cells, rat liver 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 produced by alternative splicing.

## 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

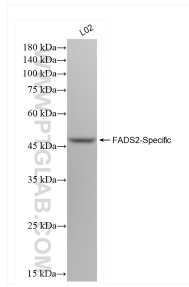
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

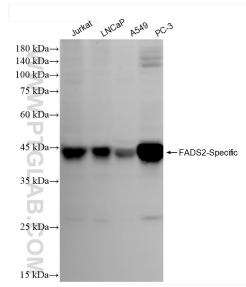
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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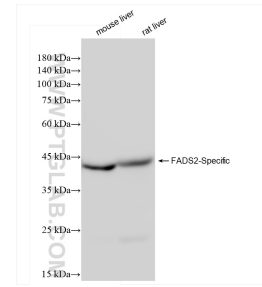
## Selected Validation Data



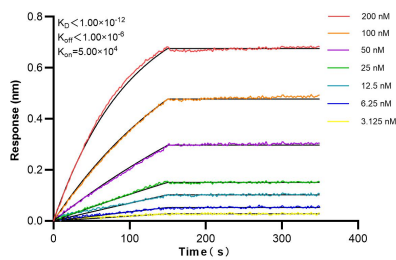
L02 cells were subjected to SDS PAGE followed by western blot with 84527-4-RR (FADS2-Specific antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 84527-4-RR (FADS2-Specific antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 84527-4-RR (FADS2-Specific antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 84527-4-RR against Human FADS2-Specific were performed. The affinity constant is below 1 pM.