

For Research Use Only

# FADS2-Specific Recombinant antibody, PBS Only

Catalog Number: 84527-5-PBS



## Basic Information

<b>Catalog Number:</b> 84527-5-PBS	<b>GenBank Accession Number:</b> BC009011	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 9415	<b>CloneNo.:</b> 241863G3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O95864	
<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	

## Applications

**Tested Applications:**  
IF/ICC, Indirect ELISA

**Species Specificity:**  
human

## 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.

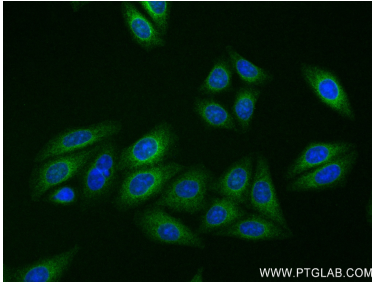
## Storage

**Storage:**  
Store at -80°C.  
**Storage Buffer:**  
PBS Only

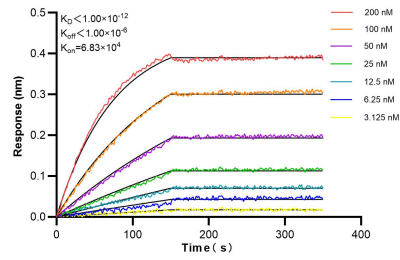
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## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using FADS2-Specific antibody (84527-5-RR, Clone: 241863G3) at dilution of 1:250 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 84527-5-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 84527-5-RR against Human FADS2-Specific were performed. The affinity constant is below 1 pM.