

bs-11516R**[Primary Antibody]****FADS2 Rabbit pAb****Bioss**
ANTIBODIES

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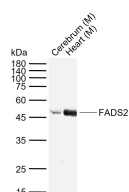
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— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Polyclonal		Reactivity: Mouse (predicted: Human, Rat, Rabbit, Pig, Cow, Chicken, Horse)
GeneID: 9415	SWISS: O95864	
Target: FADS2		Predicted MW.: 52 kDa
Immunogen: KLH conjugated synthetic peptide derived from human FADS2: 221-300/444.		Observed MW.: 47 kDa
Purification: affinity purified by Protein A		Subcellular Location: Cell membrane ,Cytoplasm
Concentration: 1mg/ml		
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
Background: Members of the fatty acid desaturase (FADS) family, including FADS1, FADS2 and FADS3, regulate the desaturation of fatty acids by introducing double bonds between defined carbons of fatty acyl chains, thereby playing an essential role in the lipid metabolic pathway. Members of this family share N-terminal cytochrome b5-like domains, C-terminal multiple membrane-spanning desaturase regions and 3 histidine box motifs. FADS2 (fatty acid desaturase 2), also known as D6D, DES6, LLCDL2 or TU13, is a 444 amino acid multi-pass membrane protein that localizes to the endoplasmic reticulum and contains one cytochrome b5 heme-binding domain. Expressed in adult and fetal heart and in adult liver, brain, lung and retina, FADS2 functions as a component of a lipid metabolic pathway and catalyzes the first step in the pathway, namely the formation of unsaturated fatty acids from polyunsaturated fatty acids. Defects in the gene encoding FADS2 are the cause of cause of fatty acid delta-6-desaturase deficiency, an affliction that is characterized by skin abnormalities, corneal ulceration and growth failure. Multiple isoforms of FADS2 exist due to alternative splicing events.		

— VALIDATION IMAGES —

Sample: Lane 1: Mouse Cerebrum tissue lysates
Lane 2: Mouse Heart tissue lysates Primary: Anti-FADS2 (bs-11516R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 52 kDa Observed band size: 47 kDa

— SELECTED CITATIONS —

- **[IF=8.5]** Zihong Li. et al. Fatty acid desaturase 2 (FADS2) affects the pluripotency of hESCs by regulating energy metabolism. INT J BIOL MACROMOL. 2025 Mar;295:139449 IF, WB ; Human. 39756764
- **[IF=3.701]** Xiaoxia Liu. et al. EGCG regulates fatty acid metabolism of high-fat diet-fed mice in association with

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- enrichment of gut *Akkermansia muciniphila*. *J Funct Foods*. 2020 Dec;75:104261 IHC ;Mouse. 10.1016/j.jff.2020.104261
- **[IF=2.752]** Xuchun Liu. et al. The Effect of FATP1 on Adipocyte Differentiation in Qinchuan Beef Cattle. *Animals-Basel*. 2021 Oct;11(10):2789 WB ;Bovine. 10.3390/ani11102789