

DATASHEET

FADS3 Rabbit Polyclonal Antibody

CAT. NO. APA15590

KEY FEATURES

Target	FADS3	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

BACKGROUND

Mammals have different sphingoid bases that differ in their length and/or pattern of desaturation and hydroxyl groups. The predominant sphingoid base that comprises mammalian ceramides is sphing-4-ene (sphingosine or SPH) which has a trans (E) desaturation at carbon 4 which has a trans (E) desaturation at carbon 4. FADS3 is a desaturase that introduces a cis (Z) double bond between carbon 14 and carbon 15 of the sphingoid base (also known as long chain base, LCB), producing LCBs such as sphinga-4,14-dienine (SPD, d18:2(4E,14Z)) from SPH. Prefers SPH-containing ceramides (N-acylsphing-4-enines) as substrates. Capable of metabolizing also the SPH in its free form. SPD ceramides occur widely in mammalian tissues and cells.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
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*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

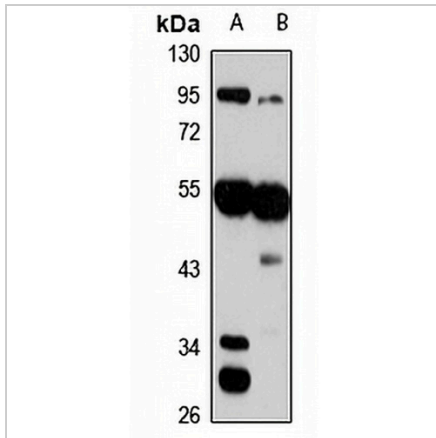
Description	Rabbit polyclonal antibody to FADS3
Specificity	Recognizes endogenous levels of FADS3 protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human FADS3. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 51 kD; Observed: 55 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	CYB5RP; Fatty acid desaturase 3; Cytochrome b5-related protein
Gene Symbol	FADS3
Entrez Gene	3995(Human); 60527(Mouse); 286922(Rat)
SwissProt	Q9Y5Q0(Human); Q9JJE7(Mouse); Q8K1P9(Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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DATA

Western blot analysis of FADS3 expression in mouse kidney (A), rat liver (B) whole cell lysates. (Predicted band size: 51 kD; Observed band size: 55 kD)

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.