

Datasheet for ABIN656230

anti-FADS2 antibody (N-Term)

6 Images

1 Publication

[Go to Product page](#)

Overview

Quantity:	200 µL
Target:	FADS2
Binding Specificity:	AA 79-108, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FADS2 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)

Product Details

Immunogen:	This FADS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 79-108 amino acids from the N-terminal region of human FADS2.
Clone:	RB31063
Isotype:	IgG
Predicted Reactivity:	Pr
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	FADS2
---------	-------

Target Details

Alternative Name:	FADS2 (FADS2 Products)
Background:	The protein encoded by this gene is a member of the fatty acid desaturase (FADS) gene family. Desaturase enzymes regulate unsaturation of fatty acids through the introduction of double bonds between defined carbons of the fatty acyl chain. FADS family members are considered fusion products composed of an N-terminal cytochrome b5-like domain and a C-terminal multiple membrane-spanning desaturase portion, both of which are characterized by conserved histidine motifs. This gene is clustered with family members FADS1 and FADS2 at 11q12-q13.1, this cluster is thought to have arisen evolutionarily from gene duplication based on its similar exon/intron organization.
Molecular Weight:	52259
Gene ID:	9415
NCBI Accession:	NP_001268430 , NP_001268431 , NP_004256
UniProt:	O95864

Application Details

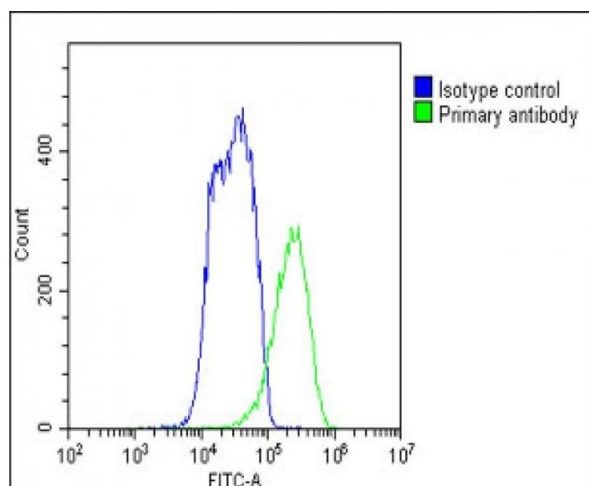
Application Notes:	IF: 1:10~50. WB: 1:1000. WB: 1:1000. WB: 1:1000. IHC-P: 1:10~50. FC: 1:25
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	FADS2 Antibody (N-term) can be refrigerated at 2-8 °C for up to 6 months. For long term storage, place the at -20 °C.
Expiry Date:	6 months

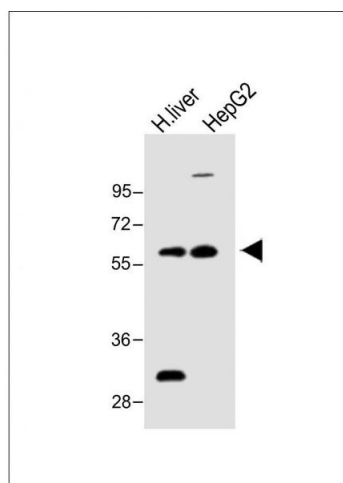
Product cited in: Simón, Agnolazza, German, Garelli, Politi, Agbaga, Anderson, Rotstein: "Synthesis of docosahexaenoic acid from eicosapentaenoic acid in retina neurons protects photoreceptors from oxidative stress." in: **Journal of neurochemistry**, Vol. 136, Issue 5, pp. 931-46, (2016) ([PubMed](#)).

Images



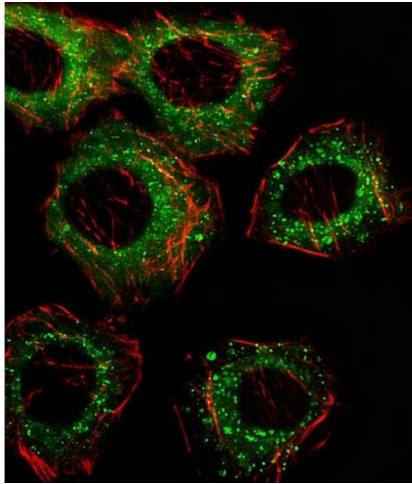
Flow Cytometry

Image 1. Overlay histogram showing HepG2 cells stained with A (green line). The cells were fixed with 2 % paraformaldehyde 10 min. The cells were then incubated in 2 % bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (A, 1:25 dilution) for 60 min at 37 °C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(1583138) at 1/200 dilution for 40 min at 37 °C. Isotype control antibody (blue line) was rabbit IgG1 (1 µg/ 1×10^6 cells) used under the same conditions. Acquisition of >10,000 events was performed.



Western Blotting

Image 2. All lanes : Anti-FADS2 Antibody (N-term) at 1:1000 dilution Lane 1: H. liver lysate Lane 2: HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 60 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



Immunofluorescence

Image 3. Fluorescent image of A549 cell stained with FADS2 Antibody (N-term) (ABIN656230 and ABIN2845545)/SA110322AN. A549 cells were fixed with 4 % PFA (20 min), permeabilized with Triton X-100 (0.1 %, 10 min), then incubated with FADS2 primary antibody (1:25, 1 h at 37 °C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 °C). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/mL, 1 h at 37 °C). FADS2 immunoreactivity is localized to Cytoplasm and Vesicles significantly.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN656230.