

Product datasheet for **AP51507PU-N**

FADS2 (N-term) Rabbit Polyclonal Antibody

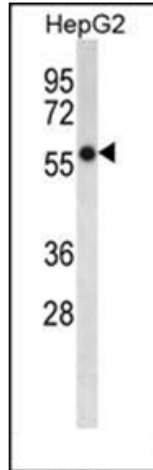
Product data:

Product Type:	Primary Antibodies
Applications:	FC, IF, IHC, WB
Recommended Dilution:	ELISA: 1/1000. Flow Cytometry: 1/10-1/50. Immunofluorescence: 1/10-1/50. Western blotting: 1/1000. Immunohistochemistry on Paraffin Sections: 1/10-1/50.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 79-108 amino acids from the N-terminal region of Human FADS2
Specificity:	This antibody recognizes FADS2 (N-term).
Formulation:	PBS State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Protein A Chromatography followed by peptide affinity purification
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	fatty acid desaturase 2
Database Link:	Entrez Gene 9415 Human O95864

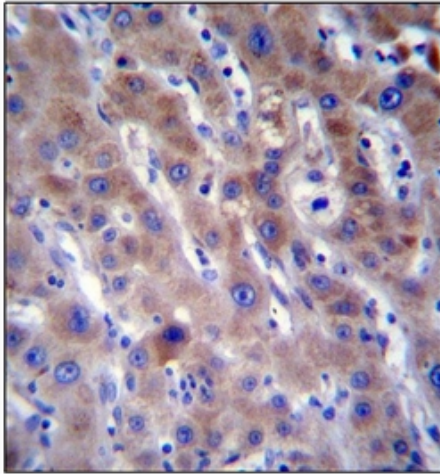


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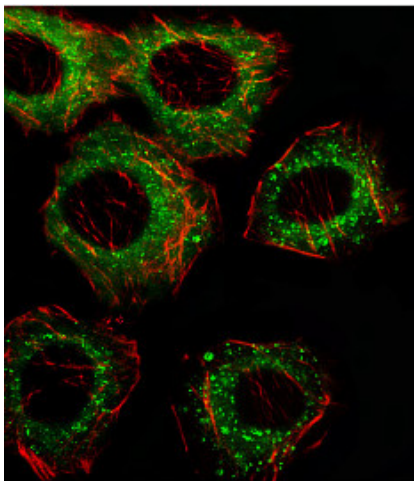
Background:	The protein encoded by this gene is a member of the fatty acid desaturase (FADS) gene family. Desaturase enzymes regulate unsaturation of fatty acids through the introduction of double bonds between defined carbons of the fatty acyl chain. FADS family members are considered fusion products 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.
Synonyms:	Fatty acid desaturase 2, D6D, Delta 6 desaturase
Note:	Molecular Weight: 52259 Da
Protein Families:	Transmembrane
Protein Pathways:	alpha-Linolenic acid metabolism, Biosynthesis of unsaturated fatty acids, PPAR signaling pathway

Product images:

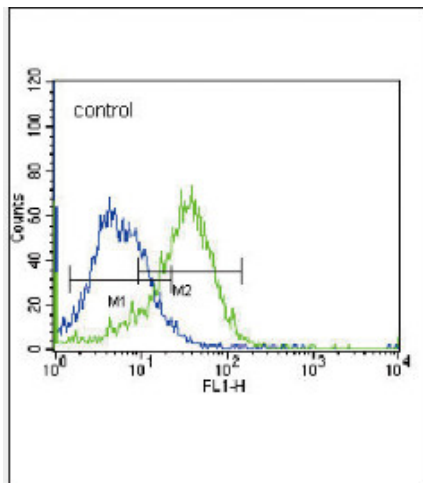
Western blot analysis in HepG2 cell line lysates (35ug/lane) using FADS2 Antibody (N-term). This demonstrates the FADS2 antibody detected the FADS2 protein (arrow).



Immunohistochemistry analysis in Formalin Fixed, Paraffin Embedded Human liver tissue stained with FADS2 Antibody (N-term) followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of FADS2 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Fluorescent image of A549 cell stained with FADS2 Antibody (N-term) (Lot 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 (7units/ml, 1 h at 37°C?). FADS2 immunoreactivity is localized to Cytoplasm and Vesicles significantly.



Flow cytometric analysis of K562 cells using FADS2 Antibody (N-term) (right histogram) compared to a negative control cell (left histogram). FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis