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FADS3 Antibody (monoclonal) (M07)

Mouse monoclonal antibody raised against a partial recombinant FADS3.
Catalog # AT1990a

Product Information

Application	WB, E
Primary Accession	Q9Y5Q0
Other Accession	NM_021727
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	3D2
Calculated MW	51145

Additional Information

Gene ID	3995
Other Names	Fatty acid desaturase 3, 11419-, Cytochrome b5-related protein, FADS3, CYB5RP
Target/Specificity	FADS3 (NP_068373, 16 a.a. ~ 113 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	FADS3 Antibody (monoclonal) (M07) is for research use only and not for use in diagnostic or therapeutic procedures.

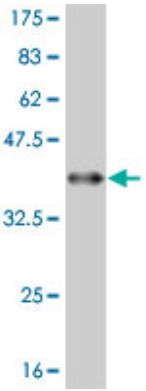
Background

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.

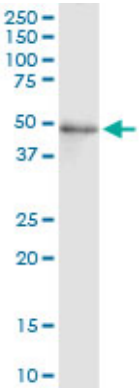
References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.FADS genetic variants and omega-6 polyunsaturated fatty acid metabolism in a homogeneous island population. Mathias RA, et al. J Lipid Res, 2010 Sep. PMID 20562440.Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.Genetic determinants of circulating sphingolipid concentrations in European populations. Hicks AA, et al. PLoS Genet, 2009 Oct. PMID 19798445.The fatty acid desaturase 3 gene encodes for different FADS3 protein isoforms in mammalian tissues. P?drono F, et al. J Lipid Res, 2010 Mar. PMID 19752397.

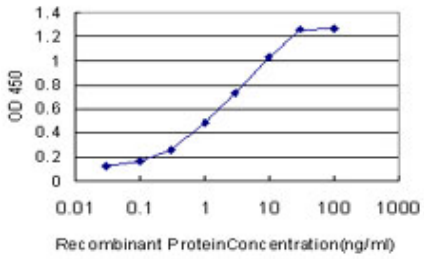
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.52 KDa) .



FADS3 monoclonal antibody (M07), clone 3D2. Western Blot analysis of FADS3 expression in human placenta.



Detection limit for recombinant GST tagged FADS3 is approximately 0.1ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.