

**FADS3 Antibody (monoclonal) (M07)****Mouse monoclonal antibody raised against a partial recombinant FADS3.****Catalog # AT1990a****Specification****FADS3 Antibody (monoclonal) (M07) - Product Information**

Application	WB, E
Primary Accession	<a href="#">Q9Y5Q0</a>
Other Accession	<a href="#">NM_021727</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2b Kappa
Calculated MW	51145

**FADS3 Antibody (monoclonal) (M07) - 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.

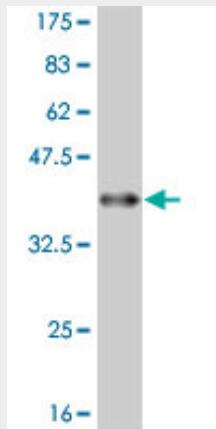
**FADS3 Antibody (monoclonal) (M07) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

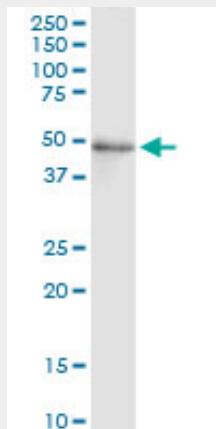
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

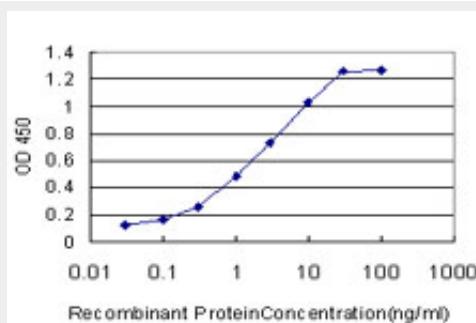
### FADS3 Antibody (monoclonal) (M07) - Images



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.

### FADS3 Antibody (monoclonal) (M07) - 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.

#### **FADS3 Antibody (monoclonal) (M07) - References**

Variation at the NFATC2 Locus Increases the Risk of Thiazolidinedione-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.