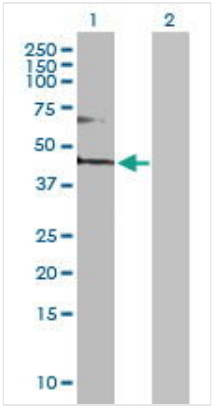
FADS3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FADS3, Polyclonal Antibody
Full Product Name	FADS3 (Fatty Acid Desaturase 3, Cytochrome b5-related Protein, CYB5RP) (Biotin)
Product Gene Name	anti-FADS3 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human FADS3.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor
Molecular Weight	51,145 Da
OMIM	606150
3D Structure	ModBase 3D Structure for Q9Y5Q0
Immunogen	Full length human FADS3, aa1-445 (NP_068373.1).
Immunogen Sequence	MGGVGEPGPREGPAQPGAPLPTFCWEQIRAHDQPGDKWLVIERRVYDISRWAQRHPGGSRLIGHHGAEDATDAFRAFHQDLNFVRKFLQPLLIGELAPE
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-FADS3 antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-FADS3 antibody	Western Blot (WB)
Application Notes for anti-FADS3 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-FADS3 antibody	MBS6377989 is an antibody targeting FADS3. Also known as FADS3 (Fatty Acid Desaturase 3, Cytochrome b5-related Protein, CYB5RP) (Biotin). Rea
Other Notes	Small volumes of anti-FADS3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces



Western Blot (WB) of anti-FADS3 antibody
Western Blot analysis of FADS3 expression in transfected 293T cell line by FADS3 polyclonal antibody. Lane 1: FADS3 transfected lysate (51.1kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FADS3. It may not necessarily be applicable to this product.

NCBI GI #	13375616
NCBI GeneID	3995
NCBI Accession #	NP_068373.1
UniProt Primary Accession #	Q9Y5Q0
UniProt Secondary Accession #	O60426
UniProt Related Accession #	Q9Y5Q0
GenBank Nucleotide #	NM_021727.3
NCBI Official Full Name	fatty acid desaturase 3
NCBI Official Synonym Full Names	fatty acid desaturase 3
NCBI Official Symbol	FADS3
NCBI Official Synonym Symbols	CYB5RP; LLCDL3
UniProt Protein Name	Fatty acid desaturase 3
UniProt Synonym Protein Names	Cytochrome b5-related protein
Protein Family	Fatty acid desaturase
UniProt Gene Name	FADS3
UniProt Synonym Gene Names	CYB5RP
UniProt Entry Name	FADS3_HUMAN
NCBI Protein Information	fatty acid desaturase 3
NCBI Summary for FADS3	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. [provided by RefSeq, Jul 2008]

UniProt Comments for FADS3	FADS3: 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. [provided by RefSeq, Jul 2008] Protein type: Membrane protein, multi-pass; EC 1.14.19.-; Membrane protein, integral; Oxidoreductase Chromosomal Location of Human Ortholog: 11q12-q13.1 Cellular Component: endoplasmic reticulum membrane; membrane; integral to membrane Molecular Function: iron ion binding; heme binding; oxidoreductase activity, acting on paired donors, with oxidation of a pair of donors resulting in the reduction of molecular oxygen to two molecules of water Biological Process: unsaturated fatty acid biosynthetic process
Research Articles on FADS3	**1.** Minor allele homozygotes and heterozygotes of rs174455 in FADS3 gene had lower levels of 22:5 omega-3, 20:4 omega-6, and Delta5desaturase activity in patients with type 2 diabetes mellitus.
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