FADS3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FADS3, Polyclonal Antibody
Full Product Name	FADS3, CT (FADS3, CYB5RP, Fatty acid desaturase 3, Cytochrome b5-related protein) (MaxLight 550)
Product Gene Name	anti-FADS3 antibody
Product Synonym Names	FADS3; CYB5RP; Fatty acid desaturase 3; Cytochrome b5-related protein
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 MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	51,145 Da
OMIM	606150
3D Structure	ModBase 3D Structure for Q9Y5Q0
Immunogen	FADS3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 327-355 amino acids from the C-terminal region of human FADS3.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-FADS3 antibody	Antibodies; Enzymes; Cytochrome
Applications Tested/Suitable for anti-FADS3 antibody	Western Blot (WB), FLISA
Application Notes for anti-FADS3 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-FADS3 antibody	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.
Product References and Citations for anti-FADS3 antibody	Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010). Mathias, R.A., et al. J. Lipid Res. 51(9):2766-2774(2010). Barber, M.J., et al. PLoS ONE 5 (3), E9763 (2010): Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009). Hicks, A.A., et al. PLoS Genet. 5 (10), E1000672 (2009).

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 necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FADS3 purchase	MBS6297632 is an antibody targeting FADS3. Also known as FADS3, CT (FADS3, CYB5RP, Fatty acid desaturase 3, Cytochrome b5-related protein) (MaxLight 550). Reactive in Human. Host: Rabbit.

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_021727.4
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
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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