FADS1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	FADS1, Monoclonal Antibody
Full Product Name	FADS1 (Fatty Acid Desaturase 1, Delta(5) Fatty Acid Desaturase, D5D, Delta(5) Desaturase, Delta-5 Desaturase, FADSD5, FLJ38956, FLJ90273) (MaxLight 550)
Product Gene Name	anti-FADS1 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	2D9
Host	Mouse
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.
Specificity	Recognizes human FADS1.
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	42,474 Da
OMIM	606148
3D Structure	ModBase 3D Structure for O60427
Immunogen	Partial recombinant corresponding to aa1-99 from human FADS1 (NP_037534) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MAPDPVAAETAAQGPTPRYFTWDEVAQRSGCEERWLVIDRKVYNISEFTRRHPGGSRVISHYAGQDATDPFVAFHINKGLVKKYMNSLLIGELSPEQPS
Conjugate	MaxLight550
Product Categories/Family for anti-FADS1 antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-FADS1 antibody	FLISA, Immunohistochemistry (IHC) Paraffin, Western Blot (WB)
Application Notes for anti-FADS1 antibody	IHC-P: 3ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-FADS1 antibody	MBS6211432 is an antibody targeting FADS1. Also known as FADS1 (Fatty Acid Desaturase 1, Delta(5) Fatty Acid Desaturase, D5D, Delta(5) Desaturase, Delta-5 Desaturase, FADSD5, FLJ38956, FLJ90273) (MaxLight 550). Reactive in Human. Host: Mouse.

Other Notes	Small volumes of anti-FADS1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FADS1. It may not necessarily be applicable to this product.

NCBI GI #	214831730
NCBI GeneID	3992
NCBI Accession #	NP_037534
UniProt Primary Accession #	O60427
UniProt Secondary Accession #	Q53GM5; Q8N3A6; Q8NCC7; Q8NCG0; Q96I39; Q96SV3; Q96T10; Q9NRP8; Q9NYX1; A8K0I7; B2RAI0
UniProt Related Accession #	O60427
GenBank Nucleotide #	NM_013402
NCBI Official Full Name	fatty acid desaturase 1
NCBI Official Synonym Full Names	fatty acid desaturase 1
NCBI Official Symbol	FADS1
NCBI Official Synonym Symbols	D5D; TU12; FADS6; FADSD5; LLCDL1
UniProt Protein Name	Fatty acid desaturase 1
UniProt Synonym Protein Names	Delta(5) fatty acid desaturase; D5D; Delta(5) desaturase; Delta-5 desaturase
Protein Family	Fatty acid desaturase
UniProt Gene Name	FADS1
UniProt Synonym Gene Names	FADSD5; D5D; Delta(5) desaturase; Delta-5 desaturase
UniProt Entry Name	FADS1_HUMAN
NCBI Protein Information	fatty acid desaturase 1; delta(5) desaturase; delta(5) fatty acid desaturase; delta-5 desaturase; delta-5 fatty acid desaturase; linoleoyl-CoA desaturase (delta-6-desaturase)-like 1
UniProt Comments for FADS1	FADS1: Component of a lipid metabolic pathway that catalyzes biosynthesis of highly unsaturated fatty acids (HUFA) from precursor essential polyunsaturated fatty acids (PUFA) linoleic acid (LA) (18:2n-6) and alpha-linolenic acid (ALA) (18:3n-3). Catalyzes the desaturation of dihomo-gamma-linoleic acid (DHGLA) (20:3n-6) and eicosatetraenoic acid (20:4n-3) to generate arachidonic acid (AA) (20:4n-6) and eicosapentaenoic acid (EPA)(20:5n-3) respectively. Belongs to the fatty acid desaturase family. Protein type: EC 1.14.19.-; Membrane protein, multi-pass; Oxidoreductase; Lipid Metabolism - unsaturated fatty acid biosynthesis; Membrane protein, integral Chromosomal Location of Human Ortholog: 11q12.2-q13.1 Cellular Component: endoplasmic reticulum membrane; intracellular membrane-bound organelle; mitochondrion; membrane; integral to membrane Molecular Function: C-5 sterol desaturase activity; iron ion binding; heme binding; oxidoreductase activity Biological Process: icosanoid biosynthetic process; regulation of transcription, DNA-dependent; cell-cell signaling; regulation of cell differentiation; unsaturated fatty acid metabolic process; linoleic acid metabolic process; unsaturated fatty acid biosynthetic process; cellular lipid metabolic process; cellular response to starvation; phospholipid biosynthetic process

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