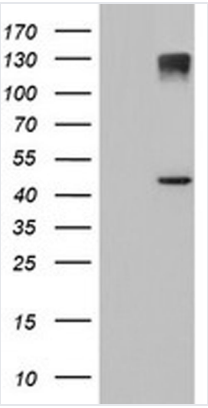
AGPAT5 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	AGPAT5, Monoclonal Antibody
Full Product Name	AGPAT5 antibody
Product Gene Name	anti-AGPAT5 antibody
Product Synonym Names	Monoclonal AGPAT5; Anti-AGPAT5; AGPAT5; AGPAT 5; AGPAT-5
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	1H10
Host	Mouse
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Purity/Purification	AGPAT5 antibody was purified by affinity chromatography.
Concentration	500 ug-1 mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.
Molecular Weight	42,072 Da
OMIM	614796
3D Structure	ModBase 3D Structure for Q9NUQ2
Cross-Reactivity	Human
Immunogen	AGPAT5 antibody was raised in mouse using a full length recombinant protein of human AGPAT5 (NP_060831) produced in HEK293T cells, as the immunogen.
Product Categories/Family for anti-AGPAT5 antibody	Proteases; Inhibitors; & Enzymes
Applications Tested/Suitable for anti-AGPAT5 antibody	Western Blot (WB)
Application Notes for anti-AGPAT5 antibody	WB: 1:2000
Related Product Information for anti-AGPAT5 antibody	MBS533802 is an antibody targeting AGPAT5. Also known as AGPAT5 antibody. Host: Mouse. Mouse monoclonal AGPAT5 antibody
Other Notes	Small volumes of anti-AGPAT5 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.



Western Blot of anti-AGPAT5 antibody
Western Blot analysis using AGPAT5 antibodyWestern Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant AGPAT5 protein (Right) or empty vector (Left) detected with AGPAT5 antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AGPAT5. It may not necessarily be applicable to this product.

NCBI GI #	61743952
NCBI GeneID	55326
NCBI Accession #	NP_060831
UniProt Primary Accession #	Q9NUQ2
UniProt Secondary Accession #	Q8IZ47; Q9BQG4
UniProt Related Accession #	Q9NUQ2
GenBank Nucleotide #	NM_018361.3
NCBI Official Full Name	1-acyl-sn-glycerol-3-phosphate acyltransferase epsilon
NCBI Official Synonym Full Names	1-acylglycerol-3-phosphate O-acyltransferase 5
NCBI Official Symbol	AGPAT5
NCBI Official Synonym Symbols	LPAATE; 1AGPAT5
UniProt Protein Name	1-acyl-sn-glycerol-3-phosphate acyltransferase epsilon
UniProt Synonym Protein Names	1-acylglycerol-3-phosphate O-acyltransferase 5; 1-AGP acyltransferase 5; 1-AGPAT 5; Lysophosphatidic acid acyltransferase epsilon; LPAAT-epsilon
Protein Family	1-acyl-sn-glycerol-3-phosphate acyltransferase
UniProt Gene Name	AGPAT5
UniProt Synonym Gene Names	1-AGP acyltransferase 5; 1-AGPAT 5; LPAAT-epsilon
UniProt Entry Name	PLCE_HUMAN
NCBI Protein Information	1-acyl-sn-glycerol-3-phosphate acyltransferase epsilon
NCBI Summary for AGPAT5	This gene encodes a member of the 1-acylglycerol-3-phosphate O-acyltransferase family. This integral membrane protein converts lysophosphatidic acid to phosphatidic acid, the second step in de novo phospholipid biosynthesis. A pseudogene of this gene is present on the Y chromosome. [provided by RefSeq, Aug 2014]

UniProt Comments for AGPAT5	AGPAT5: Converts lysophosphatidic acid (LPA) into phosphatidic acid by incorporating an acyl moiety at the sn-2 position of the glycerol backbone. Belongs to the 1-acyl-sn-glycerol-3-phosphate acyltransferase family. Protein type: EC 2.3.1.51; Membrane protein, integral; Transferase; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 8p23.1 Cellular Component: mitochondrial outer membrane; endoplasmic reticulum membrane; mitochondrion; integral to membrane; nuclear envelope Molecular Function: 1-acylglycerol-3-phosphate O-acyltransferase activity Biological Process: phospholipid metabolic process; glycerophospholipid biosynthetic process; phosphatidic acid biosynthetic process; triacylglycerol biosynthetic process; hemopoietic progenitor cell differentiation; cellular lipid metabolic process; CDP-diacylglycerol biosynthetic process; phospholipid biosynthetic process
Research Articles on AGPAT5	**1.** enzymatic properties, tissue distribution, and subcellular localization of human AGPAT3 and AGPAT5
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