GPAM Antibody (Center) Blocking Peptide

PRODUCT OVERVIEW

Product Name	GPAM, Blocking Peptide
Full Product Name	GPAM Antibody (Center) Blocking peptide
Product Gene Name	GPAM blocking peptide
Product Synonym Gene Name	GPAT1; KIAA1560
Product Synonym Names	Glycerol-3-phosphate acyltransferase 1; mitochondrial; GPAT-1; GPAM; GPAT1; KIAA1560
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	GPAM peptide (MBS9217449) is used for blocking the activity of GPAM antibody (MBS9205313)
Molecular Weight	93,795 Da
OMIM	602395
Cellular Location	Mitochondrion outer membrane; Multi-pass membrane protein
Related Product Information for GPAM blocking peptide	Esterifies acyl-group from acyl-ACP to the sn-1 position of glycerol-3-phosphate, an essential step in glycerolipid biosynthesis.
Other Notes	Small volumes of GPAM blocking peptide 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 GPAM purchase	MBS9217449 is a blocking peptide targeting GPAM. Also known as GPAM Antibody (Center) Blocking peptide.

ADDITIONAL DETAILS

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

NCBI GI #	190358539
NCBI GeneID	57678
NCBI Accession #	NP_065969.3
UniProt Primary Accession #	Q9HCL2
UniProt Secondary Accession #	Q5VW51; Q86TA3
UniProt Related Accession #	Q9HCL2
GenBank Nucleotide #	NM_020918.5
NCBI Official Full Name	glycerol-3-phosphate acyltransferase 1, mitochondrial
NCBI Official Synonym Full Names	glycerol-3-phosphate acyltransferase, mitochondrial
NCBI Official Symbol	GPAM
NCBI Official Synonym Symbols	GPAT; GPAT1
UniProt Protein Name	Glycerol-3-phosphate acyltransferase 1, mitochondrial
UniProt Gene Name	GPAM

UniProt Synonym Gene Names	GPAT1; KIAA1560; GPAT-1
UniProt Entry Name	GPAT1_HUMAN
NCBI Protein Information	glycerol-3-phosphate acyltransferase 1, mitochondrial
NCBI Summary for GPAM	This gene encodes a mitochondrial enzyme which prefers saturated fatty acids as its substrate for the synthesis of glycerolipids. This metabolic pathway's first step is catalyzed by the encoded enzyme. Two forms for this enzyme exist, one in the mitochondria and one in the endoplasmic reticulum. Two alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Oct 2011]
UniProt Comments for GPAM	GPAM: glycerol-3-phosphate acyltransferase is an integral multi-pass enzyme of the mitochondrial outer membrane. It performs the first step in de novo phospholipid biosynthesis. Member of the phospholipid and glycerol acyltransferase family Protein type: Membrane protein, integral; Lipid Metabolism - glycerolipid; Transferase; Mitochondrial; Lipid Metabolism - glycerophospholipid; EC 2.3.1.15; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 10q25.2 Cellular Component: mitochondrial outer membrane Molecular Function: glycerol-3-phosphate O-acyltransferase activity Biological Process: phosphatidic acid biosynthetic process; triacylglycerol biosynthetic process
Research Articles on GPAM	**1.** two transcriptional initiation sites and two promoters (promoter I and II) required for expression of the human GPAT1 (hGPAT1) gene were identified.
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