PNPLA8 Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	PNPLA8, Blocking Peptide
Full Product Name	PNPLA8 Antibody (N-term) Blocking Peptide
Product Gene Name	PNPLA8 blocking peptide
Product Synonym Gene Name	IPLA22; IPLA2G
Product Synonym Names	Calcium-independent phospholipase A2-gamma; Intracellular membrane-associated calcium-independent phospholipase A2 gamma; iPLA2-gamma; PNPLA-gamma; Patatin-like phospholipase domain-containing protein 8; iPLA2-2; PNPLA8; IPLA22; IPLA2G
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	PNPLA8 peptide (MBS9225335) is used for blocking the activity of PNPLA8 antibody (MBS9204471)
Molecular Weight	77,031 Da
OMIM	251950
Cellular Location	Endoplasmic reticulum membrane; Single-pass membrane protein. Golgi apparatus membrane; Single-pass membrane protein. Cytoplasm, perinuclear region
Tissue Location	Expressed in parenchymal tissues including heart, skeletal muscle, placenta, brain, liver and pancreas. Also expressed in bronchial epithelial cells and kidney. Highest expression is observed in skeletal muscle and heart
Related Product Information for PNPLA8 blocking peptide	Calcium-independent phospholipase A2, which catalyzes the hydrolysis of the sn-2 position of glycerophospholipids, PtdSer and to a lower extent PtdCho. Cleaves membrane phospholipids.
Other Notes	Small volumes of PNPLA8 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 PNPLA8 purchase	MBS9225335 is a blocking peptide targeting PNPLA8. Also known as PNPLA8 Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PNPLA8. It may not necessarily be applicable to this product.

NCBI GI #	74734299
NCBI GeneID	50640
NCBI Accession #	Q9NP80.1
UniProt Primary Accession #	Q9NP80
UniProt Secondary Accession #	O95035; Q8N3I3; Q9H7T5; Q9NR17; Q9NUN2; Q9NZ79; A4D0S1; C9JZI4
UniProt Related Accession #	Q9NP80
NCBI Official Full Name	Calcium-independent phospholipase A2-gamma
NCBI Official Synonym Full Names	patatin like phospholipase domain containing 8
NCBI Official Symbol	PNPLA8

NCBI Official Synonym Symbols	MMLA; IPLA2G; IPLA2-2; iPLA2gamma; PNPLA-gamma
UniProt Protein Name	Calcium-independent phospholipase A2-gamma
UniProt Synonym Protein Names	Intracellular membrane-associated calcium-independent phospholipase A2 gamma; iPLA2-gamma; PNPLA-gamma; Patatin-like phospholipase domain-containing protein 8; iPLA2-2
Protein Family	Calcium-independent phospholipase
UniProt Gene Name	PNPLA8
UniProt Synonym Gene Names	IPLA22; IPLA2G; iPLA2-gamma
UniProt Entry Name	PLPL8_HUMAN
NCBI Protein Information	calcium-independent phospholipase A2-gamma
NCBI Summary for PNPLA8	This gene encodes a member of the patatin-like phospholipase domain containing protein family. Members of this family are phospholipases which catalyze the cleavage of fatty acids from membrane phospholipids. The product of this gene is a calcium-independent phospholipase. Mutations in this gene have been associated with mitochondrial myopathy with lactic acidosis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2015]
UniProt Comments for PNPLA8	PNPLA8: Calcium-independent phospholipase A2, which catalyzes the hydrolysis of the sn-2 position of glycerophospholipids, PtdSer and to a lower extent PtdCho. Cleaves membrane phospholipids. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; EC 3.1.1.5; Phospholipase; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 7q31 Cellular Component: endoplasmic reticulum membrane; intracellular; membrane; peroxisomal membrane; peroxisome Molecular Function: calcium-independent phospholipase A2 activity; phospholipase A2 activity Biological Process: arachidonic acid metabolic process; arachidonic acid secretion; cell death; fatty acid metabolic process; linoleic acid metabolic process; phosphatidylethanolamine catabolic process; prostaglandin biosynthetic process Disease: Mitochondrial Myopathy With Lactic Acidosis
Research Articles on PNPLA8	**1.** iPLA2gamma plays an important role in in vivo Thromboxane A2 production accompanied by thrombus formation.
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