SGPL1 Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	SGPL1, Blocking Peptide
Full Product Name	SGPL1 Antibody (N-term) Blocking peptide
Product Gene Name	SGPL1 blocking peptide
Product Synonym Gene Name	KIAA1252
Product Synonym Names	Sphingosine-1-phosphate lyase 1; S1PL; SP-lyase 1; SPL 1; hSPL; Sphingosine-1-phosphate aldolase; SGPL1; KIAA1252
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	SGPL1 peptide (MBS9219364) is used for blocking the activity of SGPL1 antibody (MBS9212020)
Molecular Weight	63,524 Da
OMIM	603729
Cellular Location	Endoplasmic reticulum membrane; Single-pass type III membrane protein
Tissue Location	Found in liver and kidney.
Related Product Information for SGPL1 blocking peptide	Cleaves phosphorylated sphingoid bases (PSBs), such as sphingosine-1-phosphate, into fatty aldehydes and phosphoethanolamine. Elevates stress-induced ceramide production and apoptosis.
Other Notes	Small volumes of SGPL1 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 SGPL1 purchase	MBS9219364 is a blocking peptide targeting SGPL1. Also known as SGPL1 Antibody (N-term) Blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SGPL1. It may not necessarily be applicable to this product.

NCBI GI #	37999486
NCBI GeneID	8879
NCBI Accession #	O95470.3
UniProt Primary Accession #	O95470
UniProt Secondary Accession #	Q7Z732; Q9ULG8; Q9UN89; B2RBD4
UniProt Related Accession #	O95470
NCBI Official Full Name	Sphingosine-1-phosphate lyase 1
NCBI Official Synonym Full Names	sphingosine-1-phosphate lyase 1
NCBI Official Symbol	SGPL1
NCBI Official Synonym Symbols	SPL; S1PL
UniProt Protein Name	Sphingosine-1-phosphate lyase 1

UniProt Synonym Protein Names	Sphingosine-1-phosphate aldolase
Protein Family	Sphingosine-1-phosphate lyase
UniProt Gene Name	SGPL1
UniProt Synonym Gene Names	KIAA1252; S1PL; SP-lyase 1; SPL 1; hSPL
UniProt Entry Name	SGPL1_HUMAN
NCBI Protein Information	sphingosine-1-phosphate lyase 1
UniProt Comments for SGPL1	SGPL1: Cleaves phosphorylated sphingoid bases (PSBs), such as sphingosine-1-phosphate, into fatty aldehydes and phosphoethanolamine. Elevates stress-induced ceramide production and apoptosis. Belongs to the group II decarboxylase family. Sphingosine-1-phosphate lyase subfamily. Protein type: Apoptosis; Lipid Metabolism - sphingolipid; EC 4.1.2.27; Lyase; Membrane protein, integral Chromosomal Location of Human Ortholog: 10q21 Cellular Component: endoplasmic reticulum; endoplasmic reticulum membrane Molecular Function: protein binding; sphinganine-1-phosphate aldolase activity Biological Process: ceramide metabolic process; fatty acid metabolic process; sphingolipid biosynthetic process; sphingolipid catabolic process
Research Articles on SGPL1	**1.** SPHK1:SGPL1 ratio correlated with increased cellular sphingosine-1-phosphate (S1P), and S1P correlated with drug resistance (IC50).
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