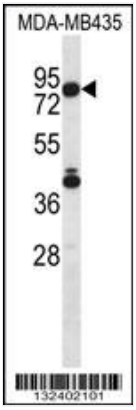
SGPL1 Antibody – Rabbit Polyclonal

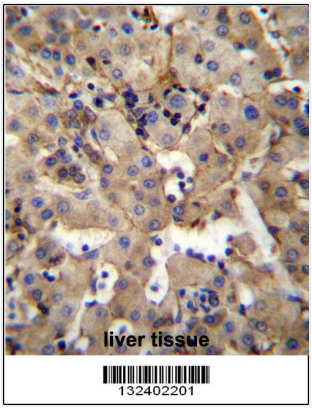
PRODUCT OVERVIEW

Product Name	SGPL1, Polyclonal Antibody
Full Product Name	SGPL1 Antibody (N-term)
Product Gene Name	anti-SGPL1 antibody
Product Synonym Names	Sphingosine-1-phosphate lyase 1; S1PL; SP-lyase 1; SPL 1; hSPL; Sphingosine-1-phosphate aldolase; SGPL1; KIAA1252
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This SGPL1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 72-101 amino acids from the N-terminal region of human SGPL1.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	SGPL1 peptide (MBS9219364) is used for blocking the activity of SGPL1 antibody (MBS9212020)
Molecular Weight	63524
Immunogen Sequence Positions	72-101
OMIM	603729
3D Structure	ModBase 3D Structure for O95470
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-SGPL1 antibody	Cancer; Cardiovascular; Metabolism; Signal transduction
Applications Tested/Suitable for anti-SGPL1 antibody	Western Blot (WB), ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-SGPL1 antibody	WB~~1:1000
Related Product Information for anti-SGPL1 antibody	SGPL1 cleaves phosphorylated sphingoid bases (PSBs), such as sphingosine-1-phosphate, into fatty aldehydes and phosphoethanolamine. Elevates stress-induced ceramide production and apoptosis.
Product References and Citations for anti-SGPL1 antibody	Seo, Y.J., et al. J. Virol. 84(16):8124-8131(2010) Vogel, P., et al. PLoS ONE 4 (1), E4112 (2009) : Peest, U., et al. J. Cell. Biochem. 104(3):756-772(2008) Morgan, A.R., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 144B (6), 762-770 (2007) : Oskouian, B., et al. Proc. Natl. Acad. Sci. U.S.A. 103(46):17384-17389(2006)

Other Notes	Small volumes of anti-SGPL1 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.
Searchable Terms for SGPL1 purchase	MBS9212020 is an antibody targeting SGPL1. Also known as SGPL1 Antibody (N-term). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-SGPL1 antibody
SGPL1 Antibody (N-term) western blot analysis in MDA-MB435 cell line lysates (35ug/lane).This demonstrates the SGPL1 antibody detected the SGPL1 protein (arrow).



Immunohistochemistry (IHC) of anti-SGPL1 antibody
SGPL1 Antibody (N-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of SGPL1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

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

NCBI GI #	31982936
NCBI GeneID	8879
NCBI Accession #	NP_003892.2
UniProt Primary Accession #	O95470
UniProt Secondary Accession #	Q7Z732; Q9ULG8; Q9UN89; B2RBD4
UniProt Related Accession #	O95470
GenBank Nucleotide #	NM_003901.3
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: Membrane protein, integral; EC 4.1.2.27; Lyase; Lipid Metabolism - sphingolipid; Apoptosis Chromosomal Location of Human Ortholog: 10q21 Cellular Component: endoplasmic reticulum membrane; endoplasmic reticulum; integral to endoplasmic reticulum membrane Molecular Function: protein binding; sphinganine-1-phosphate aldolase activity; carboxy-lyase activity; pyridoxal phosphate binding Biological Process: estrogen metabolic process; sphingolipid metabolic process; sphingolipid biosynthetic process; androgen metabolic process; regulation of multicellular organism growth; platelet-derived growth factor receptor signaling pathway; palate development; fatty acid metabolic process; sphingolipid catabolic process; post-embryonic development; Leydig cell differentiation; skeletal morphogenesis; luteinization; hemopoiesis; spermatogenesis; vasculogenesis; ceramide metabolic process; kidney development
Research Articles on SGPL1	**1.** S1P lyase - by facilitating S1P1 receptor recycling - is essential for S1P-mediated sustained signaling
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