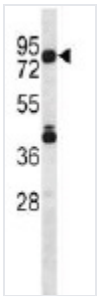
SGPL1 Antibody – Rabbit Polyclonal

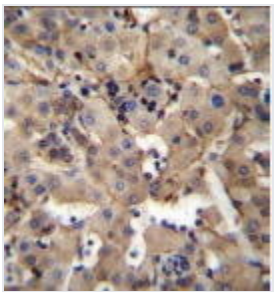
PRODUCT OVERVIEW

Product Name	SGPL1, Polyclonal Antibody
Full Product Name	SGPL1, NT (SGPL1, KIAA1252, Sphingosine-1-phosphate lyase 1, Sphingosine-1-phosphate aldolase) (MaxLight 490)
Product Gene Name	anti-SGPL1 antibody
Product Synonym Names	SGPL1; KIAA1252; Sphingosine-1-phosphate lyase 1; Sphingosine-1-phosphate aldolase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human SGPL1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	63,524 Da
OMIM	603729
3D Structure	ModBase 3D Structure for O95470
Immunogen	KLH-conjugated synthetic peptide mapping somewhere between amino acids 72-101 of human SGPL1.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-SGPL1 antibody	Antibodies; KIAA; orf
Applications Tested/Suitable for anti-SGPL1 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-SGPL1 antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
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	MBS6347060 is an antibody targeting SGPL1. Also known as SGPL1, NT (SGPL1, KIAA1252, Sphingosine-1-phosphate lyase 1, Sphingosine-1-phosphate aldolase) (MaxLight 490). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-SGPL1 antibody
Western blot analysis of SGPL1 in MDA-MB435 cell line lysate (35ug/lane) using antibodyMBS6008190.



Immunohistochemistry (IHC) of anti-SGPL1 antibody
Immunohistochemical staining of formalin-fixed, paraffin-embedded human liver tissue using antibodyMBS6008190. Peroxidase-conjugated secondary antibody and DAB staining were used.

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; hSPL; SPL 1; SP-lyase 1; sphingosine-1-phosphate aldolase

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: Lipid Metabolism - sphingolipid; Apoptosis; EC 4.1.2.27; Membrane protein, integral; Lyase 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; spermatogenesis; hemopoiesis; vasculogenesis; kidney development; ceramide metabolic process
Research Articles on SGPL1	**1.** results highlight the importance of S1P in AD suggesting the existence of a global deregulation of S1P signaling in this disease from its synthesis by SphK1 and degradation by SPL to its signaling by the S1P1 receptor.
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