



Product Specification Sheet

Mouse Sphingosine-1-phosphate lyase 1 (SGPL1) Antibodies

<input type="checkbox"/> Cat. # AB-23010-A	Rabbit Anti-Mouse SGPL1 IgG (aff pure)	SIZE: 100 ug
<input type="checkbox"/> Cat. # AB-23010-P	Mouse SGPL1 Control/blocking peptide	SIZE: 100 ug

Sphingosine-1-phosphate (SPP) participates in the proliferative signal transduction pathways of mammalian cells. SPP synthesis is catalyzed by sphingosine kinase and SPP degradation is catalyzed by SPP lyase (SPL) and is thought to occur in response to circulatory S1P.

Protein Function Cleaves phosphorylated sphingoid bases (PSBs), such as sphingosine-1-phosphate, into fatty aldehydes and phosphoethanolamine. Elevates stress-induced ceramide production and apoptosis.

Subcellular Location Endoplasmic reticulum membrane; Single-pass type III membrane protein

Protein name Sphingosine-1-phosphate lyase 1, Sphingosine-1-phosphate aldolase

Sequence similarities Belongs to the group II decarboxylase family. Sphingosine-1-phosphate lyase subfamily.

Source of Antigen and Antibodies

Antigen	14-aa peptides of Mouse SGPL1; (protein accession # Q8R0X7) (designated AB-23010-P or control peptides) conjugated to KLH; Epitope location C-terminal, cytoplasmic
Ab Host/type	Rabbit, polyclonal Aff pure IgG (cat # AB-23010-A) purified over the antigen column
2-ab	Cat # 20320, goat anti-rabbit IgG-HRP (AP, biotin, FITC conjugates also available)
-ve control	# 20009-1, Rabbit (non-immune) IgG, purified, suitable for ELISA, Western, IHC as -ve control

Form & Storage of Antibodies/Peptide Control

Affinity pure IgG

- 100 ug/100ul solution lyophilized powder

Supplied in **Buffer:** PBS+0.1% BSA

Reconstitute powder in PBS at 1mg/ml

Control/blocking peptide

- 100 ug/100 ul solution lyophilized powder

Supplied in Buffer: PBS pH 7.5,

Reconstitute powder in PBS at 1 mg/ml.

Storage

Short-term: unopened, undiluted liquid vials at 20°C and powder at 4°C or -20°C..

Long-term: at -20°C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20°C or below.

Shipping: 4°C for solutions and room temp for powder

Recommended Usage

Western Blotting (1:1K-5K for neat serum and 1-10 ug/ml for affinity pure using Chemiluminescence technique).

ELISA (1:10K-1:100K; using 50-100 ng of control peptide/well).

Histochemistry & Immunofluorescence: not tested. We recommend the use of affinity pure antibody at 2-20 ug/ml.

Specificity & Cross-reactivity

Mouse AB-23010-P peptide sequences are 100% conserved in rat and 92% in human. Antibody reactivity has not been established between species. The AB-23010-P control peptides, because of its low mol. Wt (<3 kDa), is not suitable for Western. It should be used for ELISA or antibody blocking experiments (use 5-10 ug control peptide per 1 ug of aff pure IgG or 1 ul antiserum) to confirm antibody specificity.

General References Saba, J. D., (1997). Biol. Chem. 272: 26087-26090. Schwab, S. R., (2005). Science 309: 1735-1739. Zhou, J., (1998). Biochem. Biophys. Res. Commun. 242: 502-507.

**This product is for In vitro research use only.*

Related materials available from ADI

Antibodies:

ReadyBlot **Kidney Protein Explorer**-Study distribution of protein in various regions of the mouse/rat kidney using the pre-made protein blots; Western blot recycling kit-Use the same blot for WNK1-4.

AB-23010-A-P

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