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SGPL1 Rabbit pAb

Catalog # AP99117

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O95470
Other Accession	O95470
Reactivity	Rat, Human, Mouse
Predicted	Pig, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	63524
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SGPL1
Epitope Specificity	301-400/568
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the group II decarboxylase family. Sphingosine-1-phosphate lyase subfamily.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Cleaves phosphorylated sphingoid bases (PSBs), such as sphingosine-1-phosphate, into fatty aldehydes and phosphoethanolamine. Elevates stress-induced ceramide production and apoptosis.

Additional Information

Gene ID	8879
Other Names	NPHS14; RENI; S1PL; SPL; D10Xrf456; Spgl1; SGPL1_HUMAN; SGPL1; SP-lyase 1; SPL 1; hSPL; Sphingosine-1-phosphate aldolase; 4.1.2.27; KIAA1252; SGPL1_MOUSE; mSPL; SGPL1_RAT; sphingosine-1-phosphate lyase 1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,Flow-Cyt=1ug/test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SGPL1 (HGNC:10817)

Function	Cleaves phosphorylated sphingoid bases (PSBs), such as sphingosine-1-phosphate, into fatty aldehydes and phosphoethanolamine. Elevates stress-induced ceramide production and apoptosis (PubMed:11018465, PubMed:14570870, PubMed:24809814, PubMed:28165339). Required for global lipid homeostasis in liver and cholesterol homeostasis in fibroblasts. Involved in the regulation of pro-inflammatory response and neutrophil trafficking. Modulates neuronal autophagy via phosphoethanolamine production which regulates accumulation of aggregate-prone proteins such as APP (By similarity). Seems to play a role in establishing neuronal contact sites and axonal maintenance (By similarity).
Cellular Location	Endoplasmic reticulum membrane; Single-pass type III membrane protein; Cytoplasmic side {ECO:0000250|UniProtKB:Q8R0X7}
Tissue Location	Ubiquitously expressed (PubMed:11018465, PubMed:28165343). Expressed in fetal and adult adrenal gland (at protein level) (PubMed:28165343).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.