

**S1PR5 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14409C****Specification**

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**S1PR5 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O9H228</a>
Other Accession	<a href="#">NP_001159687.1</a> , <a href="#">NP_110387.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	41775
Antigen Region	219-247

**S1PR5 Antibody (Center) - Additional Information****Gene ID** 53637**Other Names**

Sphingosine 1-phosphate receptor 5, S1P receptor 5, S1P5, Endothelial differentiation G-protein-coupled receptor 8, Sphingosine 1-phosphate receptor Edg-8, S1P receptor Edg-8, S1PR5, EDG8

**Target/Specificity**

This S1PR5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 219-247 amino acids from the Central region of human S1PR5.

**Dilution**

WB~~1:1000

**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.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

S1PR5 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**S1PR5 Antibody (Center) - Protein Information****Name** S1PR5

## Synonyms EDG8

**Function** Receptor for the lysosphingolipid sphingosine 1-phosphate (S1P). S1P is a bioactive lysophospholipid that elicits diverse physiological effect on most types of cells and tissues. Is coupled to both the G(i/o)alpha and G(12) subclass of heteromeric G-proteins (By similarity). May play a regulatory role in the transformation of radial glial cells into astrocytes and may affect proliferative activity of these cells.

## Cellular Location

Cell membrane; Multi-pass membrane protein.

## Tissue Location

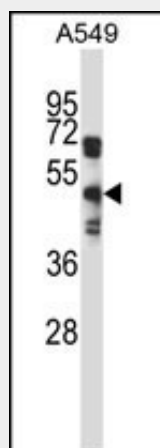
Widely expressed in the brain, most prominently in the corpus callosum, which is predominantly white matter. Detected in spleen, peripheral blood leukocytes, placenta, lung, aorta and fetal spleen. Low-level signal detected in many tissue extracts Overexpressed in leukemic large granular lymphocytes. Isoform 1 is predominantly expressed in peripheral tissues. Isoform 2 is expressed in brain, spleen and peripheral blood leukocytes

## S1PR5 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## S1PR5 Antibody (Center) - Images



S1PR5 Antibody (Center) (Cat. #AP14409c) western blot analysis in A549 cell line lysates (35ug/lane). This demonstrates the S1PR5 antibody detected the S1PR5 protein (arrow).

## S1PR5 Antibody (Center) - Background

The lysosphingolipid sphingosine 1-phosphate (S1P) regulates cell proliferation, apoptosis, motility, and neurite

retraction. Its actions may be both intracellular as a second messenger and extracellular as a receptor ligand. S1P and the structurally related lysolipid mediator lysophosphatidic acid (LPA) signal cells through a set of G protein-coupled receptors known as EDG receptors. Some EDG receptors (e.g., EDG1; MIM 601974) are S1P receptors; others (e.g., EDG2; MIM 602282) are LPA receptors.

#### **S1PR5 Antibody (Center) - References**

Chang, C.L., et al. Am. J. Physiol., Cell Physiol. 297 (2), C451-C458 (2009) :  
Gillies, L., et al. Cell. Signal. 21(5):675-684(2009)  
Miron, V.E., et al. Ann. Neurol. 63(1):61-71(2008)  
Ulfig, N., et al. Acta Histochem. 106(5):373-378(2004)  
Vogler, R., et al. J. Invest. Dermatol. 120(4):693-700(2003)