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S1PR5 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14409C

Specification

S1PR5 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q9H228
Other Accession	NP_001159687.1, NP_110387.1
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
E~~Use at an assay dependent concentration.

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/0)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.

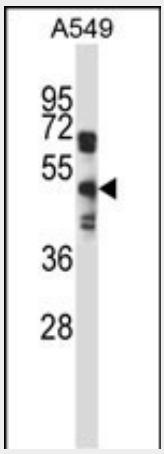
Tissue Location
Widely expressed in the brain, most prominently in the corpus callosum, which is predominantly white matter. Detected in spleen, peripheral blood leukocytes, placenta, lung, aorta and fetal spleen. Low-level signal detected in many tissue extracts Overexpressed in leukemic large granular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