

S1PR5 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP14409c**Specification**

S1PR5 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q9H228](#)**S1PR5 Antibody (Center) Blocking Peptide - 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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

S1PR5 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

S1PR5 Antibody (Center) Blocking Peptide - Images

S1PR5 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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)