

EDG8 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP6144a**Specification**

EDG8 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession [O9H228](#)
Other Accession [NP_110387](#)

EDG8 Antibody (N-term) 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, S1PR5, EDG8

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6144a](/product/products/AP6144a) was selected from the N-term region of human EDG8 . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

EDG8 Antibody (N-term) 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

EDG8 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

EDG8 Antibody (N-term) Blocking Peptide - Images**EDG8 Antibody (N-term) Blocking Peptide - Background**

The lysosphingolipid sphingosine 1-phosphate (S1P) regulates cell proliferation, apoptosis, motility, and neurite retraction, both intracellularly as a second messenger and extracellularly as a receptor ligand. EDG8, a receptor for S1P, is a member of the G protein-coupled receptor family, as well as the EDG family of proteins. Human, rat, and mouse EDG8 proteins possess 97% sequence identity and appear to signal via G(i/o)alpha proteins. Human EDG8 is expressed in spleen, corpus collosum, peripheral blood leukocytes, placenta, lung, aorta, and several fetal tissues. Its precise role remains to be determined.