

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

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**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.