

**EDG5 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP6141a****Specification**

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**EDG5 Antibody (N-term) Blocking Peptide - Product Information**

Primary Accession [O95136](#)  
Other Accession [NP\\_004221](#)

**EDG5 Antibody (N-term) Blocking Peptide - Additional Information**

**Gene ID** 9294

**Other Names**

Sphingosine 1-phosphate receptor 2, S1P receptor 2, S1P2, Endothelial differentiation G-protein coupled receptor 5, Sphingosine 1-phosphate receptor Edg-5, S1P receptor Edg-5, S1PR2, EDG5

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6141a](/product/products/AP6141a) was selected from the N-term region of human EDG5. 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.

**EDG5 Antibody (N-term) Blocking Peptide - Protein Information**

**Name** S1PR2

**Synonyms** EDG5

**Function**

Receptor for the lysosphingolipid sphingosine 1-phosphate (S1P) (PubMed:[10617617](http://www.uniprot.org/citations/10617617)). S1P is a bioactive lysophospholipid that elicits diverse physiological effects on most types of cells and tissues (PubMed:[10617617](http://www.uniprot.org/citations/10617617)). When expressed in rat HTC4 hepatoma cells, is capable of mediating S1P-induced cell proliferation and suppression of apoptosis (PubMed:[10617617](http://www.uniprot.org/citations/10617617)). Receptor for the chemokine-like protein FAM19A5 (PubMed:[10617617](http://www.uniprot.org/citations/10617617)).

[29453251](http://www.uniprot.org/citations/29453251)). Mediates the inhibitory effect of FAM19A5 on vascular smooth muscle cell proliferation and migration (By similarity).

**Cellular Location**

Cell membrane; Multi-pass membrane protein.

**EDG5 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**EDG5 Antibody (N-term) Blocking Peptide - Images****EDG5 Antibody (N-term) Blocking Peptide - Background**

EDG5 is a member of the G protein-coupled receptors, as well as the EDG family of proteins. This protein participates in sphingosine 1-phosphate-induced cell proliferation, survival, and transcriptional activation.

**EDG5 Antibody (N-term) Blocking Peptide - References**

An, S., et al., J. Biol. Chem. 275(1):288-296 (2000). Ancellin, N., et al., J. Biol. Chem. 274(27):18997-19002 (1999). MacLennan, A.J., et al., Mol. Cell. Neurosci. 5(3):201-209 (1994). Spiegel, S., Ann. N. Y. Acad. Sci. 905, 54-60 (2000). Takuwa, Y., Tanpakushitsu Kakusan Koso 47 (4 Suppl), 496-502 (2002).