

S1PR2 Antibody
Catalog # ASC11940**Specification**

S1PR2 Antibody - Product Information

Application	IHC
Primary Accession	O95136
Other Accession	NP_004221 , 9294
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 39 kDa

Application Notes

Observed: 50 kDa KDa
S1PR2 antibody can be used for detection of S1PR2 by Western blot at 1 - 2 µg/ml. Antibody can also be used for immunohistochemistry at 10 µg/ml.

S1PR2 Antibody - Additional InformationGene ID **9294****Target/Specificity**

S1PR2 antibody was raised against an 16 amino acid peptide near the carboxy terminus of human S1PR2.

The immunogen is located within amino acids 270 - 320 of S1PR2.

Reconstitution & Storage

S1PR2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

Precautions

S1PR2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

S1PR2 Antibody - Protein Information**Name** S1PR2**Synonyms** EDG5**Function**

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

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

Cellular Location

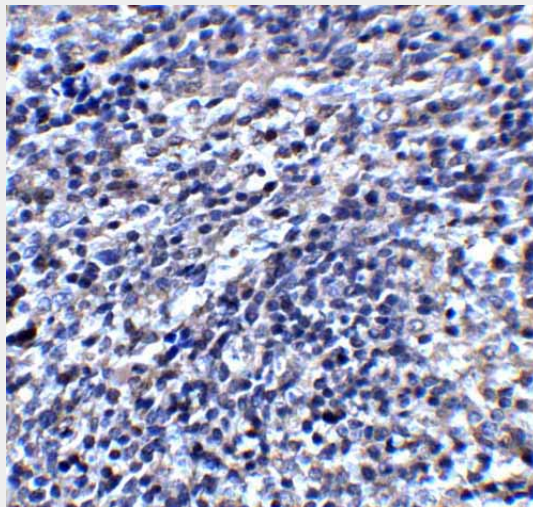
Cell membrane; Multi-pass membrane protein.

S1PR2 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

S1PR2 Antibody - Images



Immunohistochemistry of ORAI3 in mouse spleen tissue with ORAI3 antibody at 2 µg/mL.

S1PR2 Antibody - Background

The Sphingosine 1-phosphate receptor 2 (S1PR2) protein was initially identified as G-protein coupled receptor thought to be involved in development (1) and was found to mediate sphingosine 1-phosphate (SPP)-induced cell rounding and neurite retraction (2). S1PR2 and the related protein S1PR3 (also known as EDG3) are also thought to mediate the SPP-induced cell proliferation, survival, and related signaling events (3). S1PR2 has also been found to be key regulator in acute vascular inflammation and may be a novel therapeutic target for vascular disorders (4).

S1PR2 Antibody - References

MacLennan AJ, Browe CS, Gaskin AA, et al. Cloning and characterization of a putative G-protein coupled receptor potentially involved in development. *Mol. Cell Neurosci.* 1994; 5:201-9.
Van Brocklyn JR, Tu Z, Edsall LC, et al. Sphingosine 1-phosphate-induced cell rounding and neurite

retraction are mediated by the G protein-coupled receptor H218. J. Biol. Chem. 1999; 274:4626-32.
An S, Zheng Y, and Bleu T. Sphingosine 1-phosphate-induced cell proliferation, survival, and related signaling events mediated by G protein-coupled receptors Edg3 and Edg5. J. Biol. Chem. 275:288-96.

Zhang G, Yang L, Kim GS, et al. Critical role of sphingosine-1-phosphate receptor 2 (S1PR2) in acute vascular inflammation. Blood 2013; 122:443-55.