10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

S1PR4 / SIP4 / EDG6 Antibody (Cytoplasmic Domain)

Rabbit Polyclonal Antibody
Catalog # ALS10023

Specification

S1PR4 / SIP4 / EDG6 Antibody (Cytoplasmic Domain) - Product Information

Application	**IHC-P**
Primary Accession	O95977
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**42kDa KDa**
Dilution	**IHC-P~~N/A**

S1PR4 / SIP4 / EDG6 Antibody (Cytoplasmic Domain) - Additional Information

Gene ID 8698

Other Names
Sphingosine 1-phosphate receptor 4, S1P receptor 4, S1P4, Endothelial differentiation G-protein coupled receptor 6, Sphingosine 1-phosphate receptor Edg-6, S1P receptor Edg-6, S1PR4, EDG6

Target/Specificity
Human S1PR4 / EDG6. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage
Long term: -70°C; Short term: +4°C

Precautions
S1PR4 / SIP4 / EDG6 Antibody (Cytoplasmic Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

S1PR4 / SIP4 / EDG6 Antibody (Cytoplasmic Domain) - Protein Information

Name S1PR4

Synonyms EDG6

Function
G protein-coupled receptor highly expressed in immune cells, where it regulates immune response and cytokine production. Functions as a receptor for the lysosphingolipid sphingosine-1-phosphate (S1P). Upon S1P binding, promotes regulatory T-cell differentiation and enhances fatty acid oxidation, through activation of the NRF2/PPARA signaling pathway (By similarity). Modulates also M1 macrophage activation through interaction with FPR2 and the JNK signaling, contributing to the inflammatory response (By similarity). In addition, facilitates early neutrophil mobilization and vascular activation during inflammation, promoting lymphocyte recruitment to draining lymph nodes and supporting the development of germinal centers for an effective adaptive immune

response (By similarity).

Cellular Location
Cell membrane; Multi-pass membrane protein.

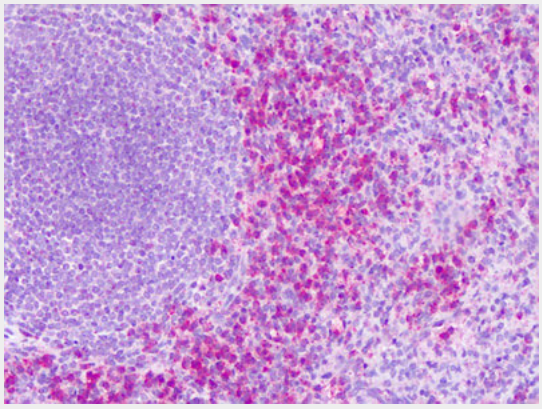
Tissue Location
Specifically expressed in fetal and adult lymphoid and hematopoietic tissue as well as in lung. Considerable level of expression in adult and fetal spleen as well as adult peripheral leukocytes and lung. Lower expression in adult thymus, lymph node, bone marrow, and appendix as well as in fetal liver, thymus, and lung

S1PR4 / SIP4 / EDG6 Antibody (Cytoplasmic Domain) - Protocols

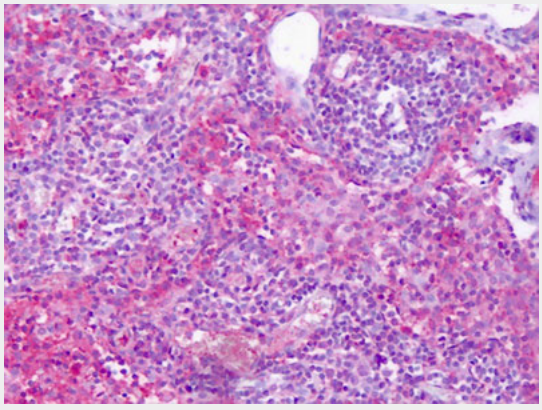
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

S1PR4 / SIP4 / EDG6 Antibody (Cytoplasmic Domain) - Images



Anti-S1PR4 / EDG6 antibody IHC of human spleen.



10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-S1PR4 / EDG6 antibody IHC of human lymph node.

S1PR4 / SIP4 / EDG6 Antibody (Cytoplasmic Domain) - Background

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. May be involved in cell migration processes that are specific for lymphocytes.

S1PR4 / SIP4 / EDG6 Antibody (Cytoplasmic Domain) - References

Graeler M.H.,et al.Genomics 53:164-169(1998).
Kopatz S.A.,et al.Submitted (JUN-2003) to the EMBL/GenBank/DDBJ databases.
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Yamazaki Y.,et al.Biochem. Biophys. Res. Commun. 268:583-589(2000).
Van Brocklyn J.R.,et al.Blood 95:2624-2629(2000).