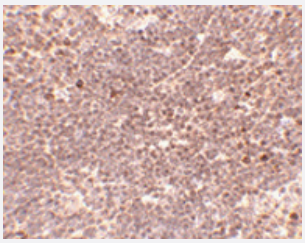
S1PR1 polyclonal antibody

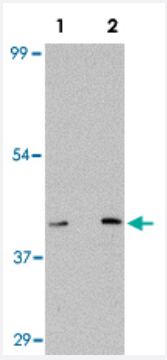
Catalog # PAB16552 Size 100 ug

Applications



Immunohistochemistry

Immunohistochemistry of S1PR1 in mouse thymus tissue with S1PR1 polyclonal antibody (Cat # PAB16552) at 5 ug/mL .



Western Blot (Tissue lysate)

Western blot analysis of S1PR1 in mouse thymus lysate with S1PR1 polyclonal antibody (Cat # PAB16552) at (Lane 1) 1 and (Lane 2) 2 ug/mL .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of S1PR1.
Immunogen	A synthetic peptide corresponding to C-terminus 14 amino acids of human S1PR1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Recommend Usage	Western Blot (1-2 ug/mL) The optimal working dilution should be determined by the end user.

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Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry

  Immunohistochemistry of S1PR1 in mouse thymus tissue with S1PR1 polyclonal antibody (Cat # PAB16552) at 5 ug/mL .

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Tissue lysate)

  Western blot analysis of S1PR1 in mouse thymus lysate with S1PR1 polyclonal antibody (Cat # PAB16552) at (Lane 1) 1 and (Lane 2) 2 ug/mL .

Gene Info — S1PR1

Entrez GeneID	1901
Protein Accession#	NP_001391
Gene Name	S1PR1
Gene Alias	CHEDG1, D1S3362, ECGF1, EDG-1, EDG1, FLJ58121, S1P1
Gene Description	sphingosine-1-phosphate receptor 1
Omim ID	601974
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is structurally similar to G protein-coupled receptors and is highl y expressed in endothelial cells. It binds the ligand sphingosine-1-phosphate with high affinity and high specificity, and suggested to be involved in the processes that regulate the differentiation of endothelial cells. Activation of this receptor induces cell-cell adhesion. [provided by RefSeq
Other Designations	G protein-coupled sphingolipid receptor|OTTHUMP00000012525|endothelial differentiation, sphi ngolipid G-protein-coupled receptor, 1|sphingosine 1-phosphate receptor EDG1

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Publication Reference

- S1PR3 is essential for phosphorylated fingolimod to protect astrocytes against oxygen-glucose deprivation-induced neuroinflammation via inhibiting TLR2/4-NFκB signalling.

  Dong YF, Guo RB, Ji J, Cao LL, Zhang L, Chen ZZ, Huang JY, Wu J, Lu J, Sun XL.

  Journal of Cellular and Molecular Medicine 2018 Jun; 22(6):3159.

  Application: WB, Rat, Rat astrocytes

- S1P1 receptor signaling overrides retention mediated by G alpha i-coupled receptors to promote T cell egress.

  Pham TH, Okada T, Matloubian M, Lo CG, Cyster JG.

  Immunity 2008 Jan; 28(1):122.

  Application: Flow Cyt, Mouse, Mouse T cells

- The sphingosine 1-phosphate receptor 1 causes tissue retention by inhibiting the entry of peripheral tissue T lymphocytes into afferent lymphatics.

  Ledgerwood LG, Lal G, Zhang N, Garin A, Esses SJ, Ginhoux F, Merad M, Peche H, Lira SA, Ding Y, Yang Y, He X, Schuchman EH, Allende ML, Ochando JC, Bromberg JS.

  Nature Immunology 2008 Jan; 9(1):42.

- Alteration of lymphocyte trafficking by sphingosine-1-phosphate receptor agonists.

  Mandala S, Hajdu R, Bergstrom J, Quackenbush E, Xie J, Milligan J, Thornton R, Shei GJ, Card D, Keohane C, Rosenbach M, Hale J, Lynch CL, Rupprecht K, Parsons W, Rosen H.

  Science 2002 Apr; 296(5566):346.

Pathway

- Neuroactive ligand-receptor interaction

Disease

- Asthma
- Atherosclerosis
- Brain Ischemia
- Calcinosis

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- Cardiovascular Diseases
- Coronary Artery Disease
- Coronary Disease
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Myocardial Infarction
- Stroke

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