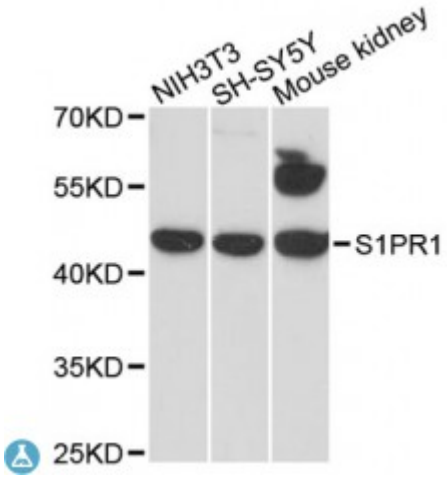
Anti-S1PR1 Antibody



Description	The protein encoded by this gene is structurally similar to G protein-coupled receptors and is highly 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. Alternative splicing results in multiple transcript variants.

Model	STJ114801
Host	Rabbit
Reactivity	Human, Mouse
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 303-382 of human S1PR1 (NP_001391.2).
Gene ID	1901
Gene Symbol	S1PR1
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	Endothelial cells, and to a lesser extent, in vascular smooth muscle cells, fibroblasts, melanocytes, and cells of epithelioid origin
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Sphingosine 1-phosphate receptor 1 S1P receptor 1 S1P1 Endothelial differentiation G-protein coupled receptor 1 Sphingosine 1-phosphate receptor Edg-1 S1P receptor Edg-1 CD antigen CD363

Molecular Weight	42.811 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:3165OMIM:601974Reactome:R-HSA-418594
Alternative Names	Sphingosine 1-phosphate receptor 1 S1P receptor 1 S1P1 Endothelial differentiation G-protein coupled receptor 1 Sphingosine 1-phosphate receptor Edg-1 S1P receptor Edg-1 CD antigen CD363
Function	G-protein coupled receptor for the bioactive lysosphingolipid sphingosine 1-phosphate (S1P) that seems to be coupled to the G(i) subclass of heteromeric G proteins, Signaling leads to the activation of RAC1, SRC, PTK2/FAK1 and MAP kinases, Plays an important role in cell migration, probably via its role in the reorganization of the actin cytoskeleton and the formation of lamellipodia in response to stimuli that increase the activity of the sphingosine kinase SPHK1, Required for normal chemotaxis toward sphingosine 1-phosphate, Required for normal embryonic heart development and normal cardiac morphogenesis, Plays an important role in the regulation of sprouting angiogenesis and vascular maturation, Inhibits sprouting angiogenesis to prevent excessive sprouting during blood vessel development, Required for normal egress of mature T-cells from the thymus into the blood stream and into peripheral lymphoid organs, Plays a role in the migration of osteoclast precursor cells, the regulation of bone mineralization and bone homeostasis , Plays a role in responses to oxidized 1-palmitoyl-2-arachidonoyl-sn-glycero-3-phosphocholine by pulmonary endothelial cells and in the protection against ventilator-induced lung injury,
Cellular Localization	Cell membrane
Post-translational Modifications	S1P-induced endothelial cell migration requires the PKB/AKT1-mediated phosphorylation of the third intracellular loop at the Thr-236 residue,