S1PR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	S1PR1, Polyclonal Antibody
Full Product Name	S1PR1 Antibody
Product Gene Name	anti-S1PR1 antibody
Product Synonym Names	EDG1; S1P1; CD363; ECGF1; EDG-1; CHEDG1; D1S3362
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification.
Specificity	The antibody detects endogenous levels of total S1PR1 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	42,811 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (101702305..101707076). Location: 1p21
OMIM	601974
3D Structure	ModBase 3D Structure for P21453
Immunogen	Synthetic peptide corresponding to residues near the C terminal of human Sphingosine-1-phosphate receptor 1
Product Categories/Family for anti-S1PR1 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-S1PR1 antibody	Western Blot (WB)
Application Notes for anti-S1PR1 antibody	WB: 1:500-1:2000
Related Product Information for anti-S1PR1 antibody	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
Other Notes	Small volumes of anti-S1PR1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for S1PR1 purchase	MBS8590629 is an antibody targeting S1PR1. Also known as S1PR1 Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for S1PR1. It may not necessarily be applicable to this product.

NCBI GI #	13027636
NCBI GeneID	1901
NCBI Accession #	NP_001391.2
UniProt Primary Accession #	P21453
UniProt Secondary Accession #	Q9BYY4; Q9NYN8; D3DT66
UniProt Related Accession #	P21453
GenBank Nucleotide #	NM_001400.4
NCBI Official Full Name	sphingosine 1-phosphate receptor 1
NCBI Official Synonym Full Names	sphingosine-1-phosphate receptor 1
NCBI Official Symbol	S1PR1
NCBI Official Synonym Symbols	EDG1; S1P1; CD363; ECGF1; EDG-1; CHEDG1; D1S3362
UniProt Protein Name	Sphingosine 1-phosphate receptor 1
UniProt Synonym Protein Names	Endothelial differentiation G-protein coupled receptor 1; Sphingosine 1-phosphate receptor Edg-1
Protein Family	Sphingosine 1-phosphate receptor
UniProt Gene Name	S1PR1
UniProt Synonym Gene Names	CHEDG1; EDG1; S1P receptor 1; S1P1
UniProt Entry Name	S1PR1_HUMAN
NCBI Protein Information	sphingosine 1-phosphate receptor 1; S1P receptor 1; S1P receptor Edg-1; sphingosine 1-phosphate receptor EDG1; sphingosine 1-phosphate receptor Edg-1; endothelial differentiation G-protein coupled receptor 1; endothelial differentiation, sphingolipid G-pr
NCBI Summary for S1PR1	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. [provided by RefSeq, Jul 2008]
UniProt Comments for S1PR1	EDG-1: a G protein-coupled 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. Highly expressed in endothelial cells and to a lesser extent, in vascular smooth muscle cells, fibroblasts, melanocytes, and cells of epithelioid origin. Suggested to be involved in the processes that regulate the migration/differentiation of endothelial cells. Activation of this receptor induces cell-cell adhesion. S1P-induced endothelial cell migration requires AKT1-mediated phosphorylation of the third intracellular loop. Seems to be coupled to the G(i) subclass of heteromeric G proteins. Protein type: Receptor, GPCR; GPCR, family 1; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 1p21 Cellular Component: plasma membrane; integral to membrane; intrinsic to plasma membrane; endosome; external side of plasma membrane; lipid raft Molecular Function: G-protein coupled receptor activity; sphingolipid binding; G-protein-coupled receptor binding Biological Process: lamellipodium biogenesis; regulation of cell adhesion; endothelial cell differentiation; regulation of bone resorption; elevation of cytosolic calcium ion concentration during G-protein signaling, coupled to IP3 second messenger (phospholipase C activating); cell migration; negative regulation of stress fiber formation; positive regulation of positive chemotaxis; positive regulation of smooth muscle cell proliferation; transmission of nerve impulse; chemotaxis; blood vessel maturation; neuron differentiation; G-protein coupled receptor protein signaling pathway; actin cytoskeleton reorganization; positive regulation of transcription from RNA polymerase II promoter; G-protein signaling, adenylate cyclase inhibiting pathway; brain development; angiogenesis; cell adhesion; regulation of bone mineralization; positive regulation of cell migration

Research Articles on S1PR1	**1.** subset of classical Hodgkin lymphoma cases (7/57; 12%) shows strong, membranous staining for S1PR1 in Hodgkin-Reed-Sternberg cells
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