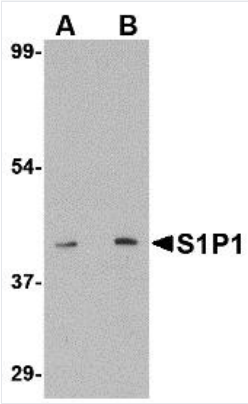
S1PR1 Antibody – Rabbit Polyclonal

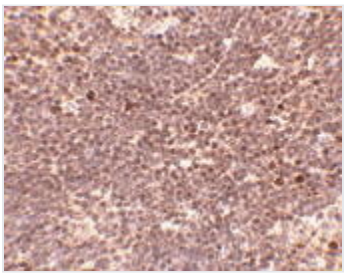
PRODUCT OVERVIEW

Product Name	EDG1 (S1PR1), Polyclonal Antibody
Full Product Name	EDG1 (Endothelial Cell Differentiation Gene 1, EDG 1, EDG-1, Endothelial Differentiation Sphingolipid G Protein Coupled Receptor 1, CHEDG1, D1S3362, G Protein Coupled Sphingolipid Receptor, Sphingosine 1-phosphate Receptor Edg-1, Sphingosine 1-phosphate R
Product Gene Name	anti-S1PR1 antibody
Product Synonym Names	Anti -EDG1 (Endothelial Cell Differentiation Gene 1, EDG 1, EDG-1, Endothelial Differentiation Sphingolipid G Protein Coupled Receptor 1, CHEDG1, D1S3362, G Protein Coupled Sphingolipid Receptor, Sphingosine 1-phosphate Receptor Edg-1, Sphingosine 1-phosphate R
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied as a liquid in PBS, 0.02% sodium azide.
Purity/Purification	Affinity Purified Purified by immunoaffinity chromatography.
Specificity	Recognizes human S1P1. Species Crossreactivity: Mouse and rat.
Preparation and Storage	May be stored at 4 degree C for short-term only. For long-term storage and to avoid repeated freezing and thawing, aliquot and store at -20 degree C. Aliquots are stable for at least 12 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
Molecular Weight	36,726 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (101702305..101707076). Location: 1p21
3D Structure	ModBase 3D Structure for Q7L853
Immunogen	Synthetic peptide corresponding to 14aa from near the carboxy terminus of the human S1P1.
Positive Control	Mouse Thymus Tissue Lysate
Product Categories/Family for anti-S1PR1 antibody	Antibodies; Abs to G Protein Receptors
Applications Tested/Suitable for anti-S1PR1 antibody	ELISA (EL/EIA), Western Blot (WB)
Application Notes for anti-S1PR1 antibody	Suitable for use in Elisa and Western Blot. Dilution: Western Blot: 1-2ug/ml
Related Product Information for anti-S1PR1 antibody	Movement of lymphocytes through lymphoid organs is required for generating immunity. Their migration into lymph nodes follows a series of events including integrin activation through chemokine signaling, adhesion and diapedis. The release of lymphocytes from lymph nodes is regulated by the phospholipid sphingosine-1-phosphate (S1P). One of its receptors S1P1 binds S1P with high specificity and affinity; agonism of this receptor by the immunosuppressive agent FTY720 inhibits the entry of tissue T cells into afferent lymphatics in homeostatic and inflammatory conditions. Recent experiments have indicated that CCR7-deficient T cells left lymph nodes more rapidly than wild-type cells did and these cells where also less effectively retained after treatment with FTY720, and that egress competence could be restored by inactivating G alpha i-protein-coupled receptor signaling. These results suggest that S1P1 acts in the lymphocyte to promote lymph node egress by overcoming retention signals mediated by CCR7 and G alpha i-protein-coupled receptor signaling. At least two isoforms of S1P1 are known to exist; this S1P1 antibody will only recognize the shorter isoform.

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	MBS621925 is an antibody targeting S1PR1. Also known as EDG1 (Endothelial Cell Differentiation Gene 1, EDG 1, EDG-1, Endothelial Differentiation Sphingolipid G Protein Coupled Receptor 1, CHEDG1, D1S3362, G Protein Coupled Sphingolipid Receptor, Sphingosine 1-phosphate Receptor Edg-1, Sphingosine 1-phosphate R. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-S1PR1 antibody
Western blot analysis of S1P1 in mouse thymus lysate with MBS621925 at (A) 1ug/ml and (B) 2ug /ml.



Immunohistochemistry (IHC) of anti-S1PR1 antibody
Immunohistochemical analysis for S1P1 in mouse thymus tissue using MBS621925 at 5ug/ml

ADDITIONAL DETAILS

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

NCBI GI #	12829916
NCBI GeneID	1901
UniProt Primary Accession #	Q7L853
UniProt Related Accession #	P21453; Q7L853
NCBI Official Full Name	EDG1
NCBI Official Synonym Full Names	sphingosine-1-phosphate receptor 1
NCBI Official Symbol	S1PR1
NCBI Official Synonym Symbols	EDG1; S1P1; ECGF1; EDG-1; CHEDG1; D1S3362; FLJ58121
UniProt Protein Name	EDG1
Protein Family	Sphingosine 1-phosphate receptor
UniProt Gene Name	EDG1
UniProt Entry Name	Q7L853_HUMAN
NCBI Protein Information	sphingosine 1-phosphate receptor 1; S1P receptor 1; OTTHUMP00000012525; 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-protein-coupled receptor, 1
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]

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: Membrane protein, integral; Membrane protein, multi-pass; GPCR, family 1; Receptor, GPCR Chromosomal Location of Human Ortholog: 1p21 Cellular Component: plasma membrane; integral to membrane; intrinsic to plasma membrane; endosome; lipid raft; external side of plasma membrane 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.** The activation of S1PR results in increased chemotactic response of CD34(+) hematopoietic stem cells to SDF-1.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/edg1/621925