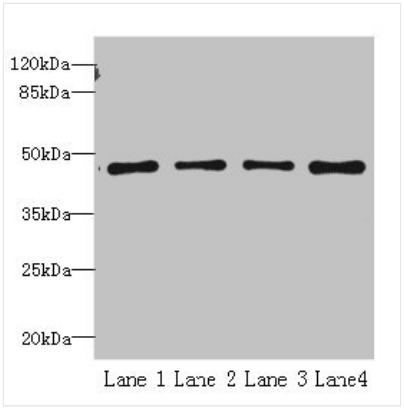
S1PR1 Antibody – Rabbit Polyclonal

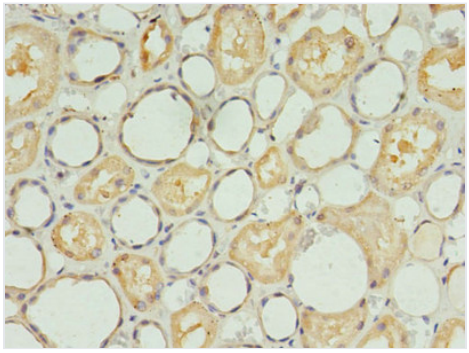
PRODUCT OVERVIEW

Product Name	S1PR1, Polyclonal Antibody
Full Product Name	S1PR1 Antibody
Product Gene Name	anti-S1PR1 antibody
Product Synonym Names	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), S1PR1, CHEDG1 EDG1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, mouse
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: S1PR1 (MBS7004272) FITC Conjugated Antibody: S1PR1 (MBS1492786)
Matching Pairs	Unconjugated Antibody: S1PR1 (MBS7004272) Biotin Conjugated Antibody: S1PR1 (MBS1493569)
Matching Pairs	Unconjugated Antibody: S1PR1 (MBS7004272) HRP Conjugated Antibody: S1PR1 (MBS1496708)
OMIM	601974
3D Structure	ModBase 3D Structure for P21453
Immunogen	Recombinant Human Sphingosine 1-phosphate receptor 1 protein (311-382AA)
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugation	Non-conjugated
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-31625 / sc-16070 / sc-25489
Species	Homo sapiens (Human)
Research Area	Cell Biology
Target Names	S1PR1
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-S1PR1 antibody	ELISA (EIA), Western Blot (WB),Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-S1PR1 antibody	WB: 1:500-1:5000 IHC: 1:20-1:200 IF: 1:50-1:200

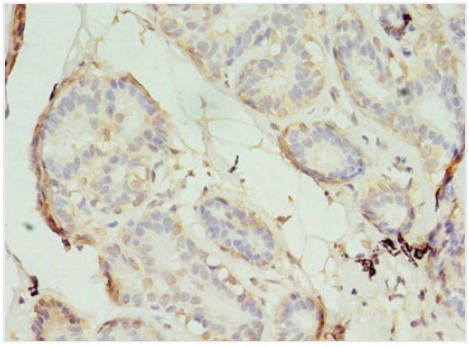
Related Product Information for anti-S1PR1 antibody	G-protein coupled receptor for the bioactive lysosphingolipid sphingosine 1-phosphate (S1P) that seems to be coupled to the G(i) subclass of heteromeric G proteins. Signaling leads to the activation of RAC1, SRC, PTK2/FAK1 and MAP kinases. Plays an 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 (By similarity). 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.
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	MBS7004272 is an antibody targeting S1PR1. Also known as S1PR1 Antibody. Reactive in Human, mouse. Host: Rabbit.



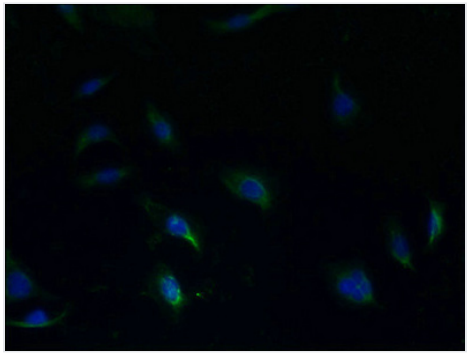
Western Blot (WB) of anti-S1PR1 antibody
Western blotAll lanes: S1PR1 antibody at 2ug/mlLane 1: Jurkat whole cell lysateLane 2: A375 whole cell lysateLane 3: Mouse thymus tissueLane 4: HepG2 cellsSecondaryGoat polyclonal to rabbit at 1/10000 dilutionPredicted band size: 43kDaObserved band size: 43kDa



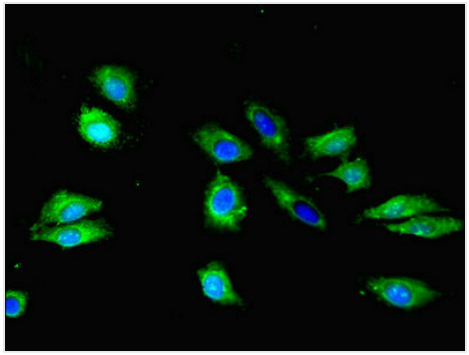
Immunohistochemistry (IHC) of anti-S1PR1 antibody
Immunohistochemistry of paraffin-embedded human kidney using MBS7004272 at dilution 1:100



Immunohistochemistry (IHC) of anti-S1PR1 antibody
Immunohistochemistry of paraffin-embedded human breast cancer using MBS7004272 at dilution 1:100



Immunofluorescence (IF) of anti-S1PR1 antibody
Immunofluorescent analysis of HepG2 cells using MBS7004272 at a dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)



Immunofluorescence (IF) of anti-S1PR1 antibody
Immunofluorescent analysis of Hela cells cells using MBS7004272 at a dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

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; S1P receptor Edg-1; CD_antigen: CD363
Protein Family	Sphingosine 1-phosphate receptor
UniProt Gene Name	S1PR1
UniProt Synonym Gene Names	CHEDG1; EDG1; S1P receptor 1; S1P1; S1P receptor Edg-1
UniProt Entry Name	S1PR1_HUMAN
NCBI Protein Information	sphingosine 1-phosphate 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, 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: Membrane protein, multi-pass; Receptor, GPCR; Membrane protein, integral; GPCR, family 1 Chromosomal Location of Human Ortholog: 1p21 Cellular Component: cytosol; endosome; external side of plasma membrane; integral to membrane; intrinsic to plasma membrane; lipid raft; plasma membrane Molecular Function: G-protein coupled receptor activity; G-protein-coupled receptor binding; sphingolipid binding Biological Process: actin cytoskeleton reorganization; angiogenesis; blood vessel maturation; brain development; cell adhesion; cell migration; chemotaxis; elevation of cytosolic calcium ion concentration during G-protein signaling, coupled to IP3 second messenger (phospholipase C activating); endothelial cell differentiation; G-protein coupled receptor protein signaling pathway; G-protein signaling, adenylate cyclase inhibiting pathway; lamellipodium biogenesis; negative regulation of stress fiber formation; neuron differentiation; positive regulation of cell migration; positive regulation of GTPase activity; positive regulation of positive chemotaxis; positive regulation of smooth muscle cell proliferation; positive regulation of transcription from RNA polymerase II promoter; regulation of bone mineralization; regulation of bone resorption; regulation of cell adhesion; transmission of nerve impulse
Research Articles on S1PR1	**1.** The role of sphingosine-1-phosphate in the production of immature double-negative thymocytes in experimental and chronic Chagas disease is reported.
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-antibody/s1pr1/7004272