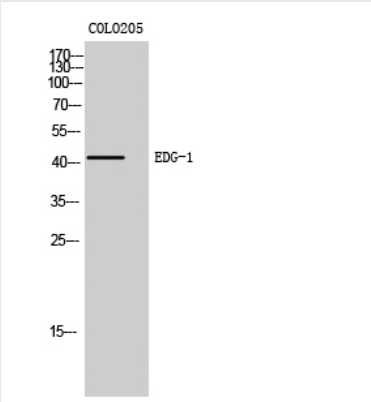
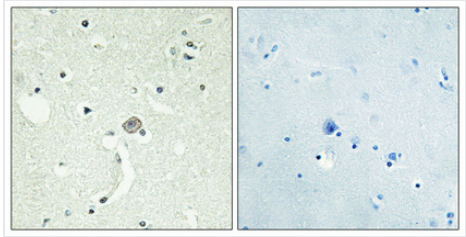
EDG-1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

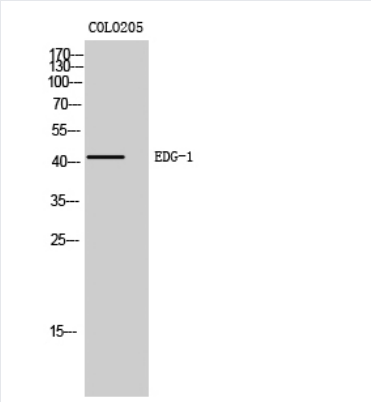
Product Name	EDG-1, Polyclonal Antibody
Full Product Name	EDG-1 Polyclonal Antibody
Product Gene Name	anti-EDG-1 antibody
Product Synonym Gene Name	S1PR1
Product Synonym Names	S1PR1; CHEDG1; EDG1; Sphingosine 1-phosphate receptor 1; S1P receptor 1; S1P1; Endothelial differentiation G-protein coupled receptor 1; Sphingosine 1-phosphate receptor Edg-1; S1P receptor Edg-1; CD antigen CD363
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent 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
Applications Tested/Suitable for anti-EDG-1 antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), Immunofluorescence (IF)
Related Product Information for anti-EDG-1 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-EDG-1 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 EDG-1 purchase	MBS9243476 is an antibody targeting EDG-1. Also known as EDG-1 Polyclonal Antibody. Reactive in Human. Host: Rabbit.



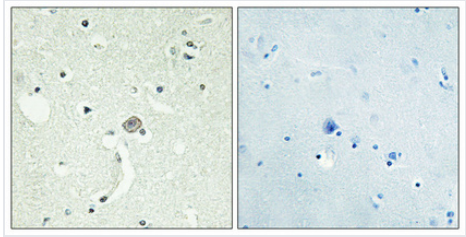
Wester Blot (WB) of anti-EDG-1 antibody
Dilution: Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.
Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.



Immunohistochemistry (IHC)-Paraffin of anti-EDG-1 antibody
Dilution: Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.
Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.



Western Blot (WB) of anti-EDG-1 antibody
Dilution: Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.
Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.



Immunohistochemistry (IHC)-Paraffin of anti-EDG-1 antibody
Dilution: Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.
Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EDG-1. 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 EDG-1	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 EDG-1	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 EDG-1	**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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