



EDG-1 Polyclonal Antibody

Catalog No	BYab-13201
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IF;ELISA
Gene Name	S1PR1
Protein Name	Sphingosine 1-phosphate receptor 1
Immunogen	The antiserum was produced against synthesized peptide derived from human S1P Receptor EDG1. AA range:206-255
Specificity	EDG-1 Polyclonal Antibody detects endogenous levels of EDG-1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	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
Observed Band	50kD
Cell Pathway	Cell membrane ; Multi-pass membrane protein. Endosome. Membrane raft. Recruited to caveolin-enriched plasma membrane microdomains in response to oxidized 1-palmitoyl-2-arachidonoyl-sn-glycero-3-phosphocholine. Ligand binding leads to receptor internalization.
Tissue Specificity	Endothelial cells, and to a lesser extent, in vascular smooth muscle cells, fibroblasts, melanocytes, and cells of epithelioid origin.
Function	function: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. This inducible epithelial cell G-protein-coupled receptor may be involved in the processes that regulate the differentiation of endothelial cells. Seems to be coupled to the G(i) subclass of heteromeric G proteins.,induction:By the tumor promoter phorbol 12-myristate 13-acetate (PME) in the presence of

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	cycloheximide.,PTM:S1P-induced endothelial cell migration requires the PKB/AKT1-mediated phosphorylation of the third intracellular loop at the Thr-236 residue.,similarity:Belongs to the G-protein coupled receptor 1 family.,tissue specificity:Endothelial cells, and to a lesser extent, in vascular smooth muscle cells, fibroblasts, melanocytes, and cells of epithelioid origin.,
Background	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. [provided by RefSeq, Mar 2016],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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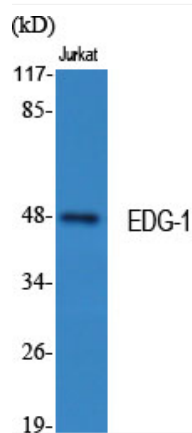
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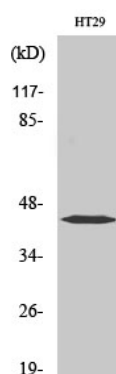
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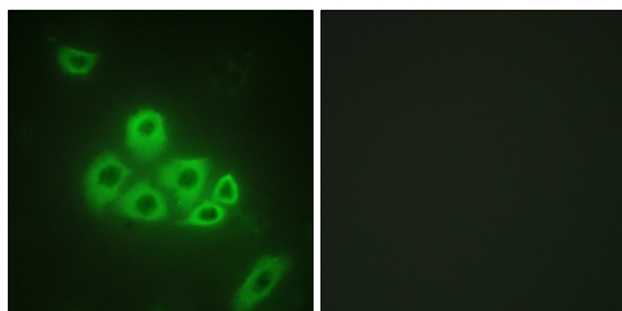
Products Images



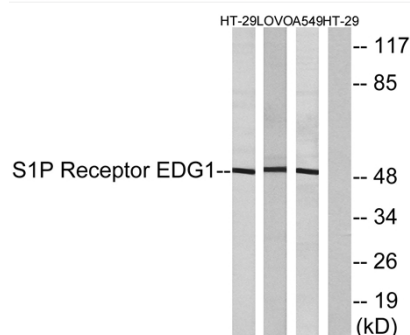
Western Blot analysis of various cells using EDG-1 Polyclonal Antibody



Western Blot analysis of A549 cells using EDG-1 Polyclonal Antibody



Immunofluorescence analysis of A549 cells, using S1P Receptor EDG1 Antibody. The picture on the right is blocked with the synthesized peptide.



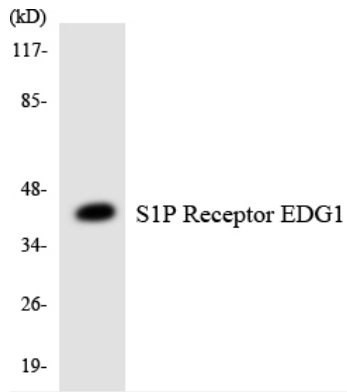
Western blot analysis of lysates from HT-29, LOVO, and A549 cells, using S1P Receptor EDG1 Antibody. The lane on the right is blocked with the synthesized peptide.

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Western blot analysis of the lysates from HUVEC cells using S1P Receptor EDG1 antibody.