

Monoclonal Antibody to EDG-6 / S1P4 -FITC-

Alternate names:	EDG-6, Endothelial differentiation G-protein coupled receptor 6, S1P receptor Edg-6, Sphingosine 1-phosphate receptor 4, Sphingosine 1-phosphate receptor Edg-6
Catalog No.:	AM05330FC-N
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	EDG6 (S1P4) belongs to a family of G-protein coupled receptors whose ligands are lysophospholipids. The ligand for EDG6 (S1P4) is sphingosine-1-phosphate. There are 8 known members of the EDG receptor family and they are implicated in mediating growth related effects such as induction of cellular proliferation, alterations in differentiation and survival and suppression of apoptosis. They also evoke cellular effector functions that are dependent on cytoskeletal responses such as contraction, secretion, adhesion and chemotaxis. EDG receptors are developmentally regulated and differ in tissue distribution. They couple to multiple types of G proteins to signal through ras and MAP kinase, rho, phospholipase C and several protein tyrosine kinases. EDG6 (S1P4) is expressed in lymphoid and hematopoietic tissue and in the lungs. Recently, the designation of the EDG receptors has been modified to include the ligand for the receptor. Thus, the new designation for the EDG6 (S1P4) receptor is the sphingosine 1-phosphate receptor-4 (S1P4).
Uniprot ID:	O95977
NCBI:	NP_003766.1
GeneID:	8698
Host / Isotype:	Mouse / IgG1
Clone:	1
Immunogen:	Hybridoma produced by the fusion of splenocytes from mice immunized with Unique synthetic peptide derived from the C-terminal of the EDG6 (S1P4) protein and mouse myeloma cells.
Format:	State: Liquid purified IgG fraction. Buffer System: PBS containing containing 1% BSA as stabilizer and 0.09% Sodium Azide as a preservative. Label: FITC
Applications:	Western Blot. Flow Cytometry: Use 1 µg/10e6 cells. NOTE: Epitope for the antibody is the C-terminal of the EDG6 protein. The C-terminal is an intracellular region and cells need to be permeablized prior to staining with antibody. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Recognizes EDG-6/S1P4 (C-term).

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
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Species Reactivity: Tested: Human.

Storage: Store the antibody undiluted at 2-8°C.

DO NOT FREEZE!

Shelf life: One year from despatch.

General Readings:

1. Yamazaki Y, Kon J, Sato K, Tomura H, Sato M, Yoneya T, et al. Edg-6 as a putative sphingosine 1-phosphate receptor coupling to Ca(2+) signaling pathway. *Biochem Biophys Res Commun.* 2000 Feb 16;268(2):583-9. PubMed PMID: 10679247.
2. Van Brocklyn JR, Gräler MH, Bernhardt G, Hobson JP, Lipp M, Spiegel S. Sphingosine-1-phosphate is a ligand for the G protein-coupled receptor EDG-6. *Blood.* 2000 Apr 15;95(8):2624-9. PubMed PMID: 10753843.
3. Takuwa Y, Okamoto H, Takuwa N, Gonda K, Sugimoto N, Sakurada S. Subtype-specific, differential activities of the EDG family receptors for sphingosine-1-phosphate, a novel lysophospholipid mediator. *Mol Cell Endocrinol.* 2001 May 25;177(1-2):3-11. PubMed PMID: 11377814.

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