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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Sphingosine 1 Phosphate 4 Receptor (CT) (EDG6) FITC Conjugate. Mouse Monoclonal Antibody

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).

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.

POSITIVE CONTROL/TISSUE EXPRESSION

Not Available

COMMENTS

Antibody can be used for flow cytometry (use 1 µg of antibody per 10⁶ 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 permeabilized prior to staining with antibody. Optimal concentration should be evaluated by serial dilutions.

ORDERING INFORMATION

CATALOG NUMBER
X1626M

SIZE
100 µg
FORM
FITC

HOST/CLONE
Mouse Clone 1

FORMULATION
Provided in phosphate buffered saline solution containing 1% BSA and 0.1% antimycotic as a preservative

CONCENTRATION
See vial for concentration

ISOTYPE
IgG1

APPLICATIONS
Western Blot, Flow Cytometry

SPECIES REACTIVITY
Human

ACCESSION NUMBER
,

PURIFICATION

Protein A/G Chromatography

SHIP CONDITIONS

Ship at ambient temperature, do not freeze, refrigerate upon arrival

STORAGE CUSTOMER

Product should be stored at 4-8°C. DO NOT FREEZE

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Yamazaki, Y., et al. "EDG-6 as a putative sphingosine 1-phosphate receptor coupling to Ca(2+) signaling pathway." *Biochem. Biophys. Res. Commun.* 2000, 268, 583-589.
2. Van Brocklyn, J.R., et al. "Sphingosine 1-phosphate is a ligand for the G protein-coupled receptor EDG-6." *Blood* 2000, 95, 2624-2629.
3. Takuwa, Y., et al. "Subtype-specific, differential activities of the EDG family receptors for sphingosine 1-phosphate, a novel lysophospholipid mediator." *Mol. Cell Endocrinol.* 2001, 177, 3-11.