

EDG6 (S1P₄) (Internal). Rabbit Polyclonal Antibody Human

Endothelial Cell Differentiation Gene-6 Internal

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.

ORDERING INFORMATION

CATALOG NUMBER
X1592P

SIZE
100 µg

FORM
Unconjugated

HOST/CLONE
Rabbit

FORMULATION
Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION
1 mg/ml

ISOTYPE
IgG

APPLICATIONS
Western Blot

IMMUNOGEN

Synthetic peptide derived from the intermediate region of the EDG6 (S1P₄) protein.

SPECIES REACTIVITY

Human

COMMENTS

Antibody can be used for Western blotting (5–10 µg/ml). Detects an approximately 42 kDa band on RH7777 cells transfected with full-length EDG-6. Due to low expression of EDG receptors, we recommend use of Pierce Femto Signal substrate for western blot development. Optimal concentration should be evaluated by serial dilutions.

STORAGE CUSTOMER

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

For research use only. Not for use in human diagnostics or therapeutics.

POSITIVE CONTROL

RH7777 cells transfected with EDG6 (S1P₄)
protein

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

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.

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