



## **EDG6 (S1P<sub>4</sub>) (N Terminal). Polyclonal Antibody, Human**

Endothelial cell differentiation gene 6, N terminal; Sphingosine 1-Phosphate Receptor-4 (S1P<sub>4</sub>)

### **BACKGROUND**

EDG6 (S1P<sub>4</sub>) belongs to a family of G-protein coupled receptors whose ligands are lysophospholipids. The ligand for EDG6 (S1P<sub>4</sub>) 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 (S1P<sub>4</sub>) is expressed in lymphoid and hematopoietic tissue and in the lungs.

### **ORDERING INFORMATION**

**CATALOG NUMBER**  
X1593P

**SIZE**  
100 µg

**FORM**  
Purified

**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 N terminal of the EDG6 (S1P<sub>4</sub>) receptor

### **SPECIES REACTIVITY**

Human

### **COMMENTS**

Detects EDG6 (S1P<sub>4</sub>) receptors at concentration of 5-10 µg/ml by Western blot using a human EDG6 (S1P<sub>4</sub>) receptor transfected cell line. Detects an approximately 45 kDa band in Cos cells transfected with full length human EDG6 (S1P<sub>4</sub>). Due to low expression of EDG receptors, we recommend use of Pierce Femto Signal substrate for western blot development.

### **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**

Cos cells transfected with EDG6 (S1P<sub>4</sub>) 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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Exalpha Biologicals, Inc. 86 Rosedale Road Watertown, MA 02472  
Tel: 800.395.1137 Fax: 866.924.5100 www.exalpha.com info@exalpha.com

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