

## Sphingosine 1 Phosphate Receptor 5 CT (EDG-8). Rabbit Polyclonal Antibody Human

Endothelial Cell Differentiation Gene-8 Receptor C-Terminal

### BACKGROUND

Endothelial Cell Differentiation Gene-8 (EDG-8) belongs to a family of G-protein coupled receptors whose ligands are lysophospholipids. The ligand for EDG-8 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. EDG-8 is expressed in oligodendrocytes and fibrous astrocytes in the rat brain.

### ORDERING INFORMATION

**CATALOG NUMBER**  
X1094P

**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

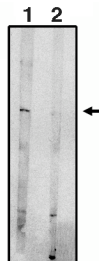
Unique synthetic peptide derived from the C-terminus of the human EDG-8 protein

### SPECIES REACTIVITY

Human

### Legend:

Western blot analysis using anti-EDG-8 CT antibody on RH7777 cell lysates transfected with full length human EDG8 (1) and blocked with blocking peptide (2) using Pierce Femto Signal substrate.



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**POSITIVE CONTROL/TISSUE EXPRESSION**

RH7777 cells transfected with full length EDG8 protein.

**COMMENTS**

Detects recombinant EDG8 receptors by Western blot (5-10  $\mu$ g/ml) at 42 kDa. 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.

**SHIP CONDITIONS**

Ship at ambient temperature, freeze upon arrival

**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

**REFERENCES**

1. Im, D.S., et al. "Characterization of a novel sphingosine-1-phosphate receptor, Edg-8." J. Biol. Chem. 2000, 275, 14281-14286
2. Malek, R.L., et al. "Nrg-1 belongs to the EDG family of G-protein coupled sphingosine-1-phosphate receptors." J. Biol. Chem. 2000, epub ahead of print.
3. Hla, T., et al. "Sphingosine-1-phosphate signaling via the EDG-1 family of G-protein coupled receptors." Ann. N.Y. Acad. Sci. 2000, 905, 16-24
4. Pyne, S. & Pyne, N.J. "Sphingosine-1-phosphate signalling in mammalian cells." Biochem. J. 2000, 349, 385-402

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