

## Lysophosphatidic Acid Receptor 3 CT (EDG-7). Rabbit Polyclonal Antibody Human

Endothelial cell differentiation gene 7 C-terminal; Lysophosphatidic Acid Receptor-4 (LPA3)

### BACKGROUND

Endothelial Cell Differentiation Gene-7 (EDG-7) belongs to a family of G-protein coupled receptors whose ligands are lysophospholipids. The ligand for EDG-7 is lysophospholipid. 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-7 is expressed in prostate as well as other tissues.

### ORDERING INFORMATION

**CATALOG NUMBER**  
X1183P

**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

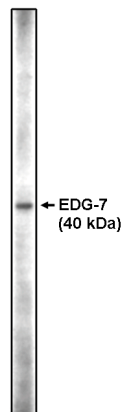
Antibody raised against a unique synthetic peptide derived from the C-terminal of the human EDG7 protein.

### SPECIES REACTIVITY

Human

### Legend:

Western blot analysis using anti-EDG-7 CT antibody on RH7777 cell lysates transfected with full length human EDG-7 using Pierce Femto Signal substrate.



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**POSITIVE CONTROL/TISSUE EXPRESSION**

RH7777 cells transfected with EDG7 protein (Cat. No. X1220C)

**COMMENTS**

Detects recombinant EDG-7 receptors by Western blot. 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. Bando, K., et al. "Molecular cloning and characterization of a novel human G-protein coupled receptor, EDG7, for lysophosphatidic acid." J. Biol. Chem. 1999, 274, 27776-27785
2. Im, D.S., et al. "Molecular cloning and characterization of a lysophosphatidic acid receptor, Edg-7, expressed in prostate." Mol. Pharmacol. 2000, 57, 753-759
3. Fang, X., et al. "Lysophospholipid growth factors in the initiation, progression, metastases, and management of ovarian cancer." Ann. N.Y. Acad. Sci. 2000, 905, 188-208

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