



EDG3 (S1P₃), (N Terminal). Rabbit Polyclonal Antibody, Human

Endothelial Cell Differentiation Gene-3 N-terminal

BACKGROUND

Endothelial cell differentiation gene-3 (EDG3) belongs to a family of G-protein couple receptors whose ligands are lysophospholipids. The ligand for EDG3 is sphingosine-1-phosphate. There are 8 known members of the EDG receptor family. They have been implicated in mediating growth related effects such as induction of cellular proliferation, alterations in differentiation and survival 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. The couple to multiple types of G proteins to signal through ras and MAP kinase, rho, phospholipase C and several protein tyrosine kinases. EDG3 is expressed in cardiovascular, leukocyte-containing and other tissues.

ORDERING INFORMATION

CATALOG NUMBER
X1590P

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 Blotting

IMMUNOGEN

Synthetic peptide derived from the N terminal of the EDG3 (S1P₃) protein.

SPECIES REACTIVITY

Human

COMMENTS

Antibody can be used for Western blotting (5-10 µg/ml). Optimal concentration should be evaluated by serial dilutions. 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

POSITIVE CONTROL

RH7777 cells transfected with EDG3 (S1P₃)
protein

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

REFERENCES

1. Goetzl EJ and An, S. "Diversity of cellular receptors and functions for the lysophospholipid growth factors lysophosphatidic acid and sphingosine 1-phosphate." FASEB J. 1998: 12, 1589-98.
2. An, S., Goetzl, E.J., Lee, H. "Signaling mechanisms and molecular characteristics of G protein-coupled receptors for lysophosphatidic acid and sphingosine 1-phosphate." J. Cell Biochem. Suppl. 1998: 30-31, 147-57.

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