



Antibody Specification Sheet

Anti-Endothelial Differentiation Gene (EDG)-5 C-terminal - Purified

Catalog reference: AS65-P

Size: 0.1 mg



Antibody Information:

Antigen: human Endothelial Differentiation Gene (EDG)-5 unique C-terminal peptide.

Ig Class: mlg fraction.

Form: purified.

Specificity: recognizes human and rat EDG-5. Does not recognize EDG-2, 3 and 4.

Antibody Source: mixture of monoclonal antibodies from BALB/c-derived hybridomas.

Production: *in vitro* cell culture.

Purification: Protein A agarose chromatography.

Purity: ≥90% Ig.

Formulation: provided as a 0.2 µm sterile-filtered solution

in Ca⁺⁺ & Mg⁺⁺ free Dulbecco's PBS and 0.05% sodium azide.

Concentration: 1 mg/ml.

Recommendations: Western Blot.

Storage conditions: store undiluted at 4 °C or in aliquots at ≤ -20 °C.

Applications:

Western Blot: This antibody has been used at at ≥ 1/1000 dilution to visualize EDG-5 expressed as an approximately 45 kDa protein T leukocytes, ovarian tumor cells, epithelial cells, estrogen

receptor positive breast carcinoma cells, human spleen and rat spleen and lung tissues using standard procedures.

General Information:

EDG-5 belongs to a family of G-protein coupled receptors whose ligands are lysophospholipids. The ligand for EDG-5 is sphingosine-1-phosphate. There are 6 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-5 is expressed in cardiovascular, central nervous system, gonadal, placental and leukocyte-containing tissues.

References:

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 Dec;12(15):1589-98.

An S; Goetzl EJ; 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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