Anti Human & Rat Endothelial Cell Differentiation Gene -3 C Terminal (EDG-3 CT)

Reactivity: Recognizes human and rat EDG-3 C terminus. Does not recognize EDG-2, 4 and 5.

Background: EDG-3 belongs to a family of G-protein coupled receptors whose ligands are lysophospholipids. The ligand for EDG-3 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-3 is expressed in cardiovascular, leukocyte-containing and other tissues.

Known Reactivities of EDG antibodies by Western Blotting:

Antibody	Human T Lymphoblasts	Human Ovarian Epithelial	Human Ovarian Tumor	Human Breast Carcinoma	Human Spleen	Rat Spleen	Rat Lung
EDG-3 NT	+	+	+	+	+	-	-
EDG-3 CT	*				+	+	+
EDG-4 NT	+	-	+	+			
EDG-4 CT							
EDG-5 NT		+	+	+/-			
EDG-5 CT	+	+	+	+/-	+	+	+

Note: If blank, reactivity not known

Isotype: mIgG fraction

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

Concentration: 1 mg/ml

Applications: Western Blot - This antibody has been used at ≥ 1/10000 dilution to visualize EDG-3 expressed as an approximately 45 kDa protein in human and rat spleen and lung tissue (5 microgram protein sample) using standard procedures.

Immunogen: human Endothelial Differentiation Gene -3 unique C-terminal peptide.

Formulation: Provided as 0.2µm sterile filtered solution in phosphate buffered saline with 0.08% sodium azide.

Antibody Source: *in vitro* cell culture, proA purified.

Antibody Purity: > 95 % by SDS PAGE

Storage: Antibodies should be stored at –20˚C. Aliquot to avoid freeze/thaw cycles.

Stability: Antibodies are stable for one year from purchase if stored frozen.

Ordering Information:	Form	Vial Size	Catalog #
	Pure	100 µg	C176M

REFERENCES:

1.Diversity of cellular receptors and functions for the lysophospholipid growth factors lysophosphatidic acid and sphingosine 1-phosphate. Goetzl EJ and An, S. FASEB J 1998 Dec; 12(15): 1589-98.
2. Signaling mechanisms and molecular characteristics of G protein-coupled receptors for lysophosphatidic acid and sphingosine 1-phosphate. An S; Goetzl EJ; Lee H. J Cell Biochem Suppl 1998;30-31:147-57.

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