Product Information

3050 Spruce Street, Saint Louis, MO 63103 USA
Tel: (800) 521-8956 (314) 771-5765 Fax: (800) 325-5052 (314) 771-5757
email: techservice@sial.com sigma-aldrich.com

ANTI- ENDOTHELIAL CELL DIFFERENTIATION GENE- 2 (EDG-2), C-TERMINAL
Developed in Rabbit, IgG Fraction of Antiserum

Product Number **E 5017**

Product Description

Anti- Endothelial Cell Differentiation Gene-2 (EDG-2) C-Terminal is developed in rabbit using a unique peptide corresponding to a C-terminal portion (amino acids 328-344) of human endothelial differentiation gene-2 as the immunogen.

Anti- Endothelial Cell Differentiation Gene-2 (EDG-2), C- recognizes EDG-2 protein from human and rat tissue by immunoblotting (50 kDa).

EDG-2 belongs to a family of G-protein coupled receptors whose ligands are lysophospholipids There are eight 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.

Reagents

Anti- Endothelial Cell Differentiation Gene-2, C-Terminal (EDG-2) is supplied as IgG fraction of antibody in PBS with 0.08% sodium azide

Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices

Storage/Stability

Store at –20 °C. For extended storage, freeze in working aliquots. Repeated freezing and thawing is not recommended. Storage in “frost-free” freezers is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

The recommended working dilution is 1:1,000 (See Reported Result) for immunoblotting using rat brain microsomal fraction and peroxidase conjugated goat anti-rabbit IgG and detection by chemiluminescence.

Note: In order to obtain best results and assay sensitivities of different techniques and preparations, we recommend determining optimal working dilutions by titration test.

References

1. Fukushima, N. et al., A single receptor encoded by vzg-1/lpA1/edg-2 couples to G proteins and mediates multiple cellular responses to lysophosphatidic acid. Proc. Natl. Acad. Sci. USA, **95**, 6151-6156 (1998).
2. Goetzl, E. et al., Lysophosphatidic acid and sphingosine 1-phosphate protection of T cells from apoptosis in association with suppression of Bax. J. Immunol., **162**, 2049-2056 (1999).

MJE, CY-1 06/21