

EDG4 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP6140a**Specification**

EDG4 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q9HBW0](#)**EDG4 Antibody (N-term) Blocking Peptide - Additional Information****Other Names**

Lysophosphatidic acid receptor 2, LPA receptor 2, LPA-2, Lysophosphatidic acid receptor Edg-4, LPAR2, EDG4, LPA2

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6140a](/product/products/AP6140a) was selected from the N-term region of human EDG4. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

EDG4 Antibody (N-term) Blocking Peptide - Protein InformationName LPAR2 ([HGNC:3168](#))

Synonyms EDG4, LPA2

Function

Receptor for lysophosphatidic acid (LPA), a mediator of diverse cellular activities. Seems to be coupled to the G(i)/G(o), G(12)/G(13), and G(q) families of heteromeric G proteins. Plays a key role in phospholipase C-beta (PLC-beta) signaling pathway. Stimulates phospholipase C (PLC) activity in a manner that is independent of RALA activation.

Cellular Location

Cell surface. Cell membrane; Multi-pass membrane protein. Note=Prior to LPA treatment found predominantly at the cell surface but in the presence of LPA colocalizes with RALA in the endocytic vesicles

Tissue Location

Expressed most abundantly in testes and peripheral blood leukocytes with less expression in pancreas, spleen, thymus and prostate. Little or no expression in heart, brain, placenta, lung, liver, skeletal muscle, kidney, ovary, small intestine, or colon

EDG4 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

EDG4 Antibody (N-term) Blocking Peptide - Images

EDG4 Antibody (N-term) Blocking Peptide - Background

EDG4 is a member of family I of the G protein-coupled receptors, as well as the EDG family of proteins. This protein functions as a lysophosphatidic acid (LPA) receptor and contributes to Ca²⁺ mobilization, a critical cellular response to LPA in cells, through association with Gi and Gq proteins.

EDG4 Antibody (N-term) Blocking Peptide - References

Hu, Y.L., et al., J. Natl. Cancer Inst. 95(10):733-740 (2003).Fujita, T., et al., Cancer Lett. 192(2):161-169 (2003).Contos, J.J., et al., Genomics 64(2):155-169 (2000).Zheng, Y., et al., FASEB J. 14(15):2387-2389 (2000).Young, K.W., et al., J. Biol. Chem. 275(49):38532-38539 (2000).