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# EDG6 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6142a

## Product Information

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| **Application** | WB, E |
| **Primary Accession** | O95977 |
| **Other Accession** | NP_003766 |
| **Reactivity** | Human, Mouse |
| **Predicted** | Rat, Bovine, Canine |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB1829 |
| **Calculated MW** | 41623 |
| **Antigen Region** | 8-37 |

## Additional Information

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| **Gene ID** | 8698 |
| **Other Names** | Sphingosine 1-phosphate receptor 4, S1P receptor 4, S1P4, Endothelial differentiation G-protein coupled receptor 6, Sphingosine 1-phosphate receptor Edg-6, S1P receptor Edg-6, S1PR4, EDG6 |
| **Target/Specificity** | This EDG6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 8-37 amino acids from the N-terminal region of human EDG6. |
| **Dilution** | WB~~1:1000 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | EDG6 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | S1PR4 |
| **Synonyms** | EDG6 |

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| **Function** | G protein-coupled receptor highly expressed in immune cells, where it regulates immune response and cytokine production. Functions as a receptor for the lysosphingolipid sphingosine-1-phosphate (S1P). Upon S1P binding, promotes regulatory T-cell differentiation and enhances fatty acid oxidation, through activation of the NRF2/PPARA signaling pathway (By similarity). Modulates also M1 macrophage activation through interaction with FPR2 and the JNK signaling, contributing to the inflammatory response (By similarity). In addition, facilitates early neutrophil mobilization and vascular activation during inflammation, promoting lymphocyte recruitment to draining lymph nodes and supporting the development of germinal centers for an effective adaptive immune response (By similarity). |
| **Cellular Location** | Cell membrane; Multi-pass membrane protein. |
| **Tissue Location** | Specifically expressed in fetal and adult lymphoid and hematopoietic tissue as well as in lung. Considerable level of expression in adult and fetal spleen as well as adult peripheral leukocytes and lung. Lower expression in adult thymus, lymph node, bone marrow, and appendix as well as in fetal liver, thymus, and lung |

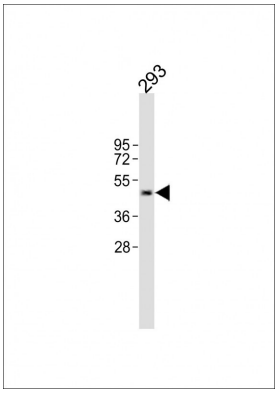
## Background

EDG6 is a member of the G protein-coupled receptors, as well as the EDG family of proteins. It participates in endothelial differentiation, and may regulate lymphocyte cell signaling. It is a member of the lysophospholipid/lysosphingolipid receptor family.

## References

Contos, J.J., et al., FEBS Lett. 531(1):99-102 (2002).
Yamazaki, Y., et al., Biochem. Biophys. Res. Commun. 268(2):583-589 (2000).
Graler, M.H., et al., Genomics 53(2):164-169 (1998).

## Images




All lanes: Anti-EDG6 Antibody (N-term) at 1:500 dilution + 293 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 48 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

## Citations

- Smac mimetic induced caspase independent necroptosis requires RIP1 in breast cancer.
- Sphingosine 1-phosphate (S1P) reduces hepatocyte growth factor-induced migration of hepatocellular carcinoma cells via S1P receptor 2.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.