

Rabbit Anti-LPA1/AP Conjugated antibody

SL2880R-AP

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| Product Name | Anti-LPA1/AP |
| Chinese Name | 碱性磷酸酶（AP）标记的溶血磷脂酸受体蛋白 1/EDG2 抗体 |
| Alias | EDG 2; Endothelial Cell Differentiation Gene-2; Endothelial differentiation gene 2; Endothelial Differentiation Lysophosphatidic Acid G Protein Coupled Receptor 2; G10 protein homolog; GPCR 26; GPCR26; Gpcr91; Kdt2; LPA 1; LPA receptor 1; LPA receptor EDG2; LPA1; LPAR1; Lysophosphatidic acid receptor 1; Lysophosphatidic acid receptor EDG2; MGC105279; MGC29102; LPAR1_HUMAN. |
| Research Area | Tumour immunology Signal transduction G protein-coupled receptor |
| Immunogen Species | Rabbit |
| Clonality | Polyclonal |
| React Species | Human Mouse Rat(predicted:Chicken Dog Cow Horse Sheep) WB=1:500-2000 |
| Applications | not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight | 41kDa |
| Form | Lyophilized or Liquid |
| Concentration | 1mg/ml |
| immunogen | KLH conjugated synthetic peptide derived from human EDG2/LPA1 |
| Lsotype | IgG |
| Purification | affinity purified by Protein A |
| Storage Buffer | 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. |
| Storage | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| Product Detail | background: EDG2 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 proteins not used within 12 hours. Edg2 has been reported in most human tissues, and is especially abundant in brain cortical regions. ESTs have been isolated from bone, brain, breast, connective tissue, embryo, heart/melanocyte/uterus, lung, prostate and uterus libraries.

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. Stimulates phospholipase C (PLC) activity in a manner that is dependent on RALA activation.

Subunit:

Interacts with RALA and ADRBK1.

Subcellular 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 co-localizes with RALA in the endocytic vesicles.

Tissue Specificity:

Expressed in many adult organs, including brain, heart, colon, small intestine, placenta, prostate, ovary, pancreas, testes, spleen, skeletal muscle, and kidney. Little or no expression in liver, lung, thymus, or peripheral blood leukocytes.

Similarity:

Belongs to the G-protein coupled receptor 1 family.

Database links:

[Entrez Gene: 281136](#) Cow

[Entrez Gene: 1902](#) Human

[Entrez Gene: 14745](#) Mouse

[Entrez Gene: 116744](#) Rat

[Omim: 602282](#) Human

[SwissProt: Q28031](#) Cow



[SwissProt: Q92633](#) Human

[SwissProt: P61793](#) Mouse

[SwissProt: P61794](#) Rat

[SwissProt: P46628](#) Sheep

[Unigene: 126667](#) Human

[Unigene: 4772](#) Mouse

[Unigene: 11200](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.