# LPAR1 polyclonal antibody

Catalog # PAB4719 Size 400 uL

## Applications



#### Western Blot (Cell lysate)

The LPAR1 polyclonal antibody (Cat # PAB4719) is used in Western blot to detect LPAR1 in A-375 cell lysate.

| Specification       |   |
|---------------------|---|
| Product Description | Rabbit polyclonal antibody raised against synthetic peptide of LPAR1.   |
| Immunogen           | A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human LPAR1.                                   |
| Host                | Rabbit  |
| Reactivity          | Human   |
| Form                | Liquid  |
| Purification        | Protein G purification  |
| Recommend Usage     | ELISA (1:1000)<br>Western Blot (1:100-500)<br>The optimal working dilution should be determined by the end user.        |
| Storage Buffer      | In PBS (0.09% sodium azide)   |
| Storage Instruction | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                  |
| Note                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |



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Enzyme-linked Immunoabsorbent Assay

## Gene Info — LPAR1

| Entrez GenelD      | <u>1902</u>  |
|--------------------|--|
| Protein Accession# | <u>NP_001392</u>   |
| Gene Name          | LPAR1  |
| Gene Alias         | EDG2, GPR26, Gpcr26, LPA1, Mrec1.3, VZG1, edg-2, rec.1.3, vzg-1  |
| Gene Description   | lysophosphatidic acid receptor 1   |
| Omim ID            | 602282   |
| Gene Ontology      | Hyperlink  |
| Gene Summary       | The integral membrane protein encoded by this gene is a lysophosphatidic acid (LPA) receptor fr<br>om a group known as EDG receptors. These receptors are members of the G protein-coupled re<br>ceptor superfamily. Utilized by LPA for cell signaling, EDG receptors mediate diverse biologic fun<br>ctions, including proliferation, platelet aggregation, smooth muscle contraction, inhibition of neuro<br>blastoma cell differentiation, chemotaxis, and tumor cell invasion. Two transcript variants encodin<br>g the same protein have been identified for this gene [provided by RefSeq |
| Other Designations | OTTHUMP00000021903 OTTHUMP00000021904 OTTHUMP00000021905 endothelial different iation, lysophosphatidic acid G-protein-coupled receptor, 2 ventricular zone gene 1   |

## **Publication Reference**

• <u>Structure-based discovery of a subtype-selective inhibitor targeting a transient receptor potential vanilloid</u> <u>channel.</u>

Chai H, Cheng X, Zhou B, Zhao L, Lin X, Huang D, Lu W, Lv H, Tang F, Zhang Q, Huang W, Li Y, Yang H.

Journal of Medicinal Chemistry 2019 Feb; 62(3):1373.

Application: WB, Human, PC-3M cells

• The type 1 lysophosphatidic acid receptor is a target for therapy in bone metastases.

Boucharaba A, Serre CM, Guglielmi J, Bordet JC, Clezardin P, Peyruchaud O. PNAS 2006 Jun; 103(25):9643.

## Pathway

- Gap junction
- Neuroactive ligand-receptor interaction

#### Disease

- <u>Cardiovascular Diseases</u>
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Lupus Erythematosus
- Osteoarthritis