

**产品名称:** PLC  $\gamma$ 1 (phospho Tyr1253) Rabbit Polyclonal Antibody  
**产品货号:** APRab05284



## 产品概述 (Summary)

|                        |                                                             |
|------------------------|-------------------------------------------------------------|
| 产品名称 (Production Name) | PLC $\gamma$ 1 (phospho Tyr1253) Rabbit Polyclonal Antibody |
| 描述 (Description)       | Rabbit polyclonal Antibody                                  |
| 宿主 (Host)              | Rabbit                                                      |
| 应用 (Application)       | WB,IHC                                                      |
| 种属反应性 (Reactivity)     | Human,Mouse,Rat                                             |

## 产品性能 (Performance)

|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                                      |
| 修饰 (Modification)   | Phosphorylated                                                                                    |
| 同种型 (Isotype)       | IgG                                                                                               |
| 克隆 (Clonality)      | Polyclonal                                                                                        |
| 形式 (Form)           | Liquid                                                                                            |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.          |
| 储存溶液 (Buffer)       | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| 纯化方式 (Purification) | Affinity purification                                                                             |

## 免疫原信息 (Immunogen)

|                        |                                                                                                                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 基因名 (Gene Name)        | PLCG1                                                                                                                                                                                                |
| 别名 (Alternative Names) | PLCG1; PLC1; 1-phosphatidylinositol 4; 5-bisphosphate phosphodiesterase gamma-1; PLC-148; Phosphoinositide phospholipase C-gamma-1; Phospholipase C-II; PLC-II; Phospholipase C-gamma-1; PLC-gamma-1 |
| 基因 ID (Gene ID)        | 5335.0                                                                                                                                                                                               |
| 蛋白 ID (SwissProt ID)   | P19174.The antiserum was produced against synthesized peptide derived from human PLCG1 around the phosphorylation site of Tyr1253. AA range:1221-1270                                                |

## 产品应用 (Application)

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|                                 |                                |
|---------------------------------|--------------------------------|
| <b>稀释比 (Dilution Ratio)</b>     | WB 1:500-1:2000,IHC 1:50-1:300 |
| <b>蛋白分子量 (Molecular Weight)</b> | 150kDa                         |

## 研究背景 (Background)

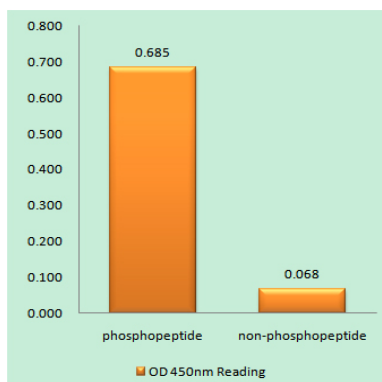
The protein encoded by this gene catalyzes the formation of inositol 1,4,5-trisphosphate and diacylglycerol from phosphatidylinositol 4,5-bisphosphate. This reaction uses calcium as a cofactor and plays an important role in the intracellular transduction of receptor-mediated tyrosine kinase activators. For example, when activated by SRC, the encoded protein causes the Ras guanine nucleotide exchange factor RasGRP1 to translocate to the Golgi, where it activates Ras. Also, this protein has been shown to be a major substrate for heparin-binding growth factor 1 (acidic fibroblast growth factor)-activated tyrosine kinase. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],catalytic activity:1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate + H(2)O = 1D-myo-inositol 1,4,5-trisphosphate + diacylglycerol.,cofactor:Calcium.,domain:The SH3 domain mediates interaction with CLNK (By similarity). The SH3 domain also mediates interaction with RALGPS1.,function:PLC-gamma is a major substrate for heparin-binding growth factor 1 (acidic fibroblast growth factor)-activated tyrosine kinase.,PTM:The receptor-mediated activation of PLC-gamma-1 and PLC-gamma-2 involves their phosphorylation by tyrosine kinases in response to ligation of a variety of growth factor receptors and immune system receptors.,PTM:Ubiquitinated by CBLB in activated T-cells.,similarity:Contains 1 C2 domain.,similarity:Contains 1 EF-hand domain.,similarity:Contains 1 PH domain.,similarity:Contains 1 PI-PLC X-box domain.,similarity:Contains 1 PI-PLC Y-box domain.,similarity:Contains 1 SH3 domain.,similarity:Contains 2 PH domains.,similarity:Contains 2 SH2 domains.,similarity:Contains 3 PH domains.,subunit:Interacts with AGAP2 via its SH3 domain (By similarity). Interacts with phosphorylated LAT upon TCR activation. Interacts with the Pro-rich domain of TNK1 via its SH3 domain. Associates with BLNK, VAV1, GRB2 and NCK1 in a B-cell antigen receptor-dependent fashion. Interacts with CBLB in activated T-cells; which inhibits phosphorylation. Interacts with SHB. Interacts via its SH3 domain with the Arg/Gly-rich-flanked Pro-rich domains of KHDRBS1/SAM68. This interaction is selectively regulated by arginine methylation of KHDRBS1/SAM68. Interacts with INPP5D/SHIP1 and CLNK (By similarity). Interacts with RALGPS1. Interacts (via SH3 domain) with HEV ORF3 protein.,

## 研究领域 (Research Area)

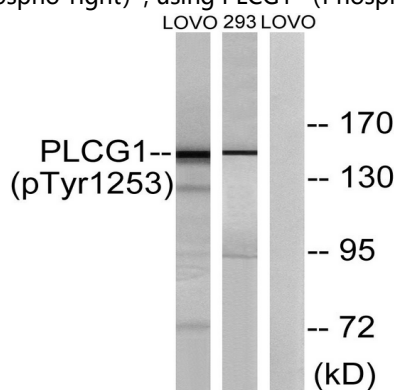
Inositol phosphate metabolism;ErbB\_HER;Calcium;Phosphatidylinositol signaling system;VEGF;Natural killer cell mediated cytotoxicity;T\_Cell\_Receptor;Fc epsilon RI;Fc gamma R-mediated phagocytosis;Leukocyte transendothelial migration;Neurotrophin;Vibrio cholerae infection;Epithelial cell signaling in Helicobacter pylori infection;Pathways in cancer;Glioma;Non-small cell lung cancer;

## 图片 (Image Data)

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Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using PLCG1 (Phospho-Tyr1253) Antibody



Western blot analysis of lysates from LOVO cells treated with and 293 cells treated with heat shock, using PLCG1 (Phospho-Tyr1253) Antibody. The lane on the right is blocked with the phospho peptide.

## 注意事项 (Note)

For research use only .