

## PLC $\gamma$ 1 (phospho Tyr771) Polyclonal Antibody

Cat #: ABP50477

Size: 30 $\mu$ l /100 $\mu$ l /200 $\mu$ l

### Product Information

|                                                                                   |                                                                          |                                                                                   |                                           |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------|
|                                                                                   | <b>Product Name:</b> PLC $\gamma$ 1 (phospho Tyr771) Polyclonal Antibody |                                                                                   |                                           |
|                                                                                   | <b>Applications:</b> WB , IHC-P, ELISA                                   |                                                                                   | <b>Isotype:</b> Rabbit IgG                |
|                                                                                   | <b>Reactivity:</b> Human, Mouse, Rat, Monkey                             |                                                                                   |                                           |
| <b>REF</b>                                                                        | <b>Catalog Number:</b> ABP50477                                          | <b>LOT</b>                                                                        | <b>Lot Number:</b> Refer to product label |
|                                                                                   | <b>Formulation:</b> Liquid                                               |                                                                                   | <b>Concentration:</b> 1 mg/ml             |
|  | <b>Storage:</b> Store at -20°C. Avoid repeated freeze / thaw cycles.     |  | <b>Note:</b> Contain sodium azide.        |

**Background:** Phospholipase C gamma 1 encoded by PLCG1 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, phospholipase C gamma 1 causes the Ras guanine nucleotide exchange factor RasGRP1 to translocate to the Golgi, where it activates Ras. Also, phospholipase C gamma 1 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 PLCG1.

**Application Notes:** Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: WB (1:500-1:2000), IHC-P (1:100-1:300), ELISA (1:40000). Not yet tested in other applications.

**Storage Buffer:** PBS containing 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.

**Storage Instructions:** Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

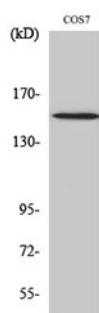


Fig. Western Blot analysis of various cells using Phospho-PLC  $\gamma$ 1 (Y771) Polyclonal Antibody.

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