BT LAB
Bioassay Technology Laboratory

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# PLCE1 Polyclonal Antibody

## Description

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|---|---|
| **Product type** | Primary Antibody |
| **Code** | BT-AP13168 |
| **Host** | Rabbit |
| **Isotype** | IgG |
| **Size** | 100ul, 50ul, 20ul |
| **Immunogen** | Synthesized peptide derived from part region of human protein |
| **Mol wt** | N/A |
| **Species reactivity** | Human, Rat, Mouse |
| **Clonality** | Polyclonal |
| **Recommended application** | IHC-p, IF |
| **Concentration** | 1 mg/ml |
| **Full name** | 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase epsilon-1 |
| **Synonyms** | 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase epsilon-1 ;EC 3.1.4.11;Pancreas-enriched phospholipase C;Phosphoinositide phospholipase C-epsilon-1;Phospholipase C-epsilon-1;PLC-epsi |

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

## Background

This gene encodes a phospholipase enzyme that catalyzes the hydrolysis of phosphatidylinositol-4,5-bisphosphate to generate two second messengers: inositol 1,4,5-triphosphate (IP3) and diacylglycerol (DAG). These second messengers subsequently regulate various processes affecting cell growth, differentiation, and gene expression. This enzyme is regulated by small monomeric GTPases of the Ras and Rho families and by heterotrimeric G proteins. In addition to its phospholipase C Catalytic activity, this enzyme has an N-terminal domain with guanine nucleotide exchange (GEF) activity. Mutations in this gene cause early-onset nephrotic syndrome; characterized by proteinuria, edema, and diffuse mesangial sclerosis or focal and segmental glomerulosclerosis. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

## Recommended Dilution

IHC-p: 1: 50 - 1: 300

Not yet tested in other applications.

## Images

No images.

## Storage

-20°C for 1 year

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