

## PLC $\beta$ 3 (Phospho Ser537) Rabbit pAb

CatalogNo: YP0707 **Orthogonal Validated** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 150kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-1:2000**

**IHC 1:100-1:300**

**ELISA 1:10000**

**IF 1:50-200**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human PLC beta3 around the phosphorylation site of Ser537. AA range:503-552

## Specificity

Phospho-PLC  $\beta$ 3 (S537) Polyclonal Antibody detects endogenous levels of PLC  $\beta$ 3 protein only when phosphorylated at S537. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): QKSLG

## Target Information

**Gene name** PLCB3

**Protein Name** 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-3

Organism	Gene ID	UniProt ID
Human	<a href="#">5331</a> ;	<a href="#">Q01970</a> ;
Mouse		<a href="#">P51432</a> ;
Rat		<a href="#">Q99JE6</a> ;

**Cellular Localization** Cytoplasm . Membrane . Nucleus . And particulate fractions. .

**Tissue specificity** Epithelium , Uterus ,

**Function** Catalytic activity: 1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate + H<sub>2</sub>O = 1D-myo-inositol 1,4,5-trisphosphate + diacylglycerol. , cofactor: Calcium. , Function: The production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) is mediated by activated phosphatidylinositol-specific phospholipase C enzymes. , similarity: Contains 1 C2 domain. , similarity: Contains 1 PI-PLC X-box domain. , similarity: Contains 1 PI-PLC Y-box domain. , subunit: Interacts with SHANK2 (By similarity) . Interacts with LPAR2. ,

## Validation Data

## Contact information

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