

# Phospho-PLC gamma 2 (PLCG2)-Y1217 Rabbit mAb

Catalog No.: AP1574 Recombinant

### **Basic Information**

### **Observed MW**

150kDa

### **Calculated MW**

148kDa

### Category

Primary antibody

### **Applications**

WB,IF/ICC,ELISA

#### **Cross-Reactivity**

Human

### CloneNo number

ARC74833

## **Background**

The protein encoded by this gene is a transmembrane signaling enzyme that catalyzes the conversion of 1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate to 1D-myo-inositol 1,4,5-trisphosphate (IP3) and diacylglycerol (DAG) using calcium as a cofactor. IP3 and DAG are second messenger molecules important for transmitting signals from growth factor receptors and immune system receptors across the cell membrane. Mutations in this gene have been found in autoinflammation, antibody deficiency, and immune dysregulation syndrome and familial cold autoinflammatory syndrome 3.

## **Recommended Dilutions**

**WB** 1:5000 - 1:30000

**IF/ICC** 1:100 - 1:400

**ELISA** Recommended starting concentration is 1 μg/mL.

Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

**Gene ID**Swiss Prot
5336
P16885

### **Immunogen**

Synthetic peptide. This information is considered to be commercially sensitive.

### **Synonyms**

FCAS3; APLAID; PLC-IV; PLC-gamma-2

### **Contact**

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### **Product Information**

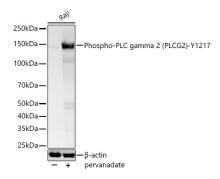
SourceIsotypePurificationRabbitIgGAffinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

### **Validation Data**



Western blot analysis of lysates from Raji cells using Phospho-PLC gamma 2 (PLCG2)-Y1217 Rabbit mAb (AP1574) at 1:5000 dilution incubated at room temperature for 1.5 hours. Raji cells were treated by pervanadate (1 mM) at  $37^{\circ}$ C for 30 minutes after serum-starvation overnight.

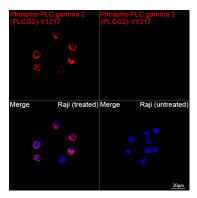
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 30 µg per lane.

Blocking buffer: 3 % nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 1s.



Confocal imaging of Raji cells (treated with pervanadate) and Raji cells (untreated) using Phospho-PLC gamma 2 (PLCG2)-Y1217 Rabbit mAb (AP1574, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.