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Phospho-PLC gamma 1 (PLCG1)-Y783 Rabbit mAb

Catalog No.: AP1658 Recombinant

Basic Information

Observed MW
155 kDa

Calculated MW
149 kDa

Category
Primary antibody

Applications
WB,IP,ELISA

Cross-Reactivity
Human, Mouse

CloneNo number
ARC4187

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.

Recommended Dilutions

WB	1:10000 - 1:50000
IP	0.5 μg - 4 μg antibody for 200 μg - 400 μg extracts of whole cells
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
5335

Swiss Prot
P19174

Immunogen
This information is considered to be commercially sensitive.

Synonyms

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

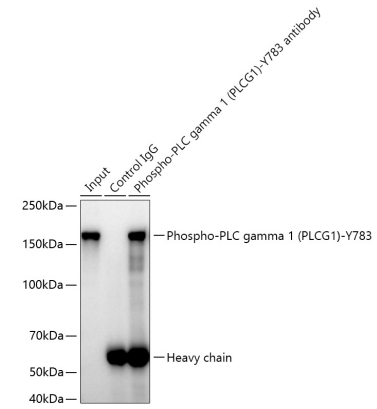
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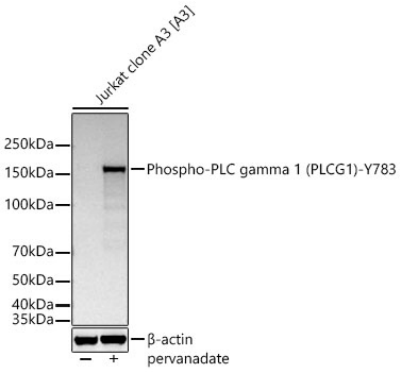
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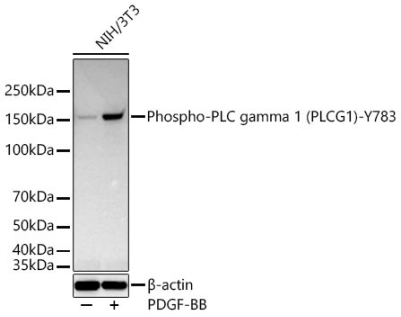
Validation Data



Immunoprecipitation of Phospho-PLC gamma 1 (PLCG1)-Y783 from 300 µg extracts of Jurkat clone A3 [A3] cells treated with pervanadate (1 mM,30 minutes) was performed using 2 µg of Phospho-PLC gamma 1 (PLCG1)-Y783 Rabbit mAb (AP1658). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Phospho-PLC gamma 1 (PLCG1)-Y783 Rabbit mAb (AP1658) at a dilution of 1:5000.



Western blot analysis of lysates from Jurkat clone A3 [A3] cells using Phospho-PLC gamma 1 (PLCG1)-Y783 Rabbit mAb (AP1658) at 1:28000 dilution incubated overnight at 4°C. Jurkat clone A3 [A3] cells were treated with pervanadate (1 mM) at 37°C for 30 minutes.|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: 1 s.



Western blot analysis of lysates from NIH/3T3 cells using Phospho-PLC gamma 1 (PLCG1)-Y783 Rabbit mAb (AP1658) at 1:28000 dilution incubated overnight at 4°C. NIH/3T3 cells were treated with PDGF-BB (100 ng/mL) at 37°C for 10 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: 45 s.