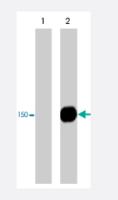
PLCG1 (phospho Y775) polyclonal antibody

Catalog # PAB7929 Size 100 uL

Applications



Immunoprecipitation

Western blot analysis of PLCG1 immunoprecipitates from human Jurkat cells untreated (lane 1) or treated with pervanadate (1 mM) for 30 min (lane 2). The blots were probed with PLCG1 (phospho Y775) polyclonal antibody (Cat # PAB7929).

Specification	
Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of PLCG1.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding Y775 of human PLCG1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This sequence has high homology to the conserved site in rat and mouse PLCg1, and has low homol ogy to PLCg2.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:2000) Immunocytochemistry (1:100) Immunoprecipitation (1-5 ul) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (50% glycerol, 1 mg/mL BSA, 0.05% sodium azide)

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Product Information

Storage Instruction

Aliquot to avoid repeated freezing and thawing.

Store at -20°C.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot
- Immunocytochemistry
- Immunoprecipitation

Western blot analysis of PLCG1 immunoprecipitates from human Jurkat cells untreated (lane 1) or treated with pervanadate (1 mM) for 30 min (lane 2). The blots were probed with PLCG1 (phospho Y775) polyclonal antibody (Cat # PAB7929).

Enzyme-linked Immunoabsorbent Assay

Gene Info — PLCG1	
Entrez GenelD	5335
Gene Name	PLCG1
Gene Alias	PLC-II, PLC1, PLC148, PLCgamma1
Gene Description	phospholipase C, gamma 1
Omim ID	<u>172420</u>
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene catalyzes the formation of inositol 1,4,5-trisphosphate and diac ylglycerol from phosphatidylinositol 4,5-bisphosphate. This reaction uses calcium as a cofactor an d plays an important role in the intracellular transduction of receptor-mediated tyrosine kinase acti vators. For example, when activated by SRC, the encoded protein causes the Ras guanine nucle otide exchange factor RasGRP1 to translocate to the Golgi, where it activates Ras. Also, this prot ein 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. [provided by RefSeq
Other Designations	1-phosphatidyl-D-myo-inositol-4,5-bisphosphate 1-phosphatidylinositol-4,5-bisphosphate phosph odiesterase gamma 1 OTTHUMP00000031787 OTTHUMP00000178982 PLC-gamma-1 inositol trisphosphohydrolase monophosphatidylinositol phosphodiesterase phosphatidylinositol



Publication Reference

A new tyrosine phosphorylation site in PLC gamma 1: the role of tyrosine 775 in immune receptor signaling.

Serrano CJ, Graham L, DeBell K, Rawat R, Veri MC, Bonvini E, Rellahan BL, Reischl IG. Journal of Immunology 2005 May; 174(10):6233.

Application: WB, Chicken, DT40 cells

<u>A role for gelsolin in actuating epidermal growth factor receptor-mediated cell motility.</u>

Chen P, Murphy-Ullrich JE, Wells A. The Journal of Cell Biology 1996 Aug; 134(3):689.

 Transforming potentials of epidermal growth factor and nerve growth factor receptors inversely correlate with their phospholipase C gamma affinity and signal activation.

Obermeier A, Tinhofer I, Grunicke HH, Ullrich A. The EMBO Journal 1996 Jan; 15(1):73.

Application: IP, WB-Tr, Human, HEK 293 cells

Pathway

- Calcium signaling pathway
- Epithelial cell signaling in Helicobacter pylori infection
- ErbB signaling pathway
- <u>Fc epsilon RI signaling pathway</u>
- Fc gamma R-mediated phagocytosis
- Glioma
- Inositol phosphate metabolism
- Leukocyte transendothelial migration
- Metabolic pathways
- Natural killer cell mediated cytotoxicity
- <u>Neurotrophin signaling pathway</u>

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- Non-small cell lung cancer
- Pathways in cancer
- Phosphatidylinositol signaling system
- <u>T cell receptor signaling pathway</u>
- <u>VEGF signaling pathway</u>
- <u>Vibrio cholerae infection</u>

Disease

- Bipolar Disorder
- <u>Cardiovascular Diseases</u>
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- HIV Infections
- <u>Kidney Failure</u>
- Mental Disorders
- Multiple Sclerosis