
Product Name: KD-Validated Phospholipase C Gamma 1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01265**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 148.5kDa

Antigen Information

Gene Name	PLCG1
Alternative Names	PLCG1; Phospholipase C Gamma 1; PLC-II 2; PLC148; NCKAP3; PLC1; 1-Phosphatidylinositol 4,5-Bisphosphate Phosphodiesterase Gamma-1; Phospholipase C, Gamma 1 (Formerly Subtype 148); Phosphoinositide Phospholipase C-Gamma-1; Phospholipase C-II ; PLC-Gamma-1; EC 3.1.4.11; PLCgamma1; PLC-148; 1-Phosphatidyl-D-Myo-Inositol-4,5-Bisphosphate; Monophosphatidylinositol Phosphodiesterase; Triphosphoinositide Phosphodiesterase; Phosphatidylinositol Phospholipase ; Phosphoinositide Phospholipase C; Inositoltrisphosphohydrolase; Phospholipase C, Gamma 1; Phospholipase C-Gamma-1; Phosphoinositidase C; Phospholipase C-148; PLCGAMMA1
Gene ID	5335.0

SwissProt ID P19174

Immunogen A synthesized peptide derived from human Phospholipase C gamma 1/PLC-gamma-1

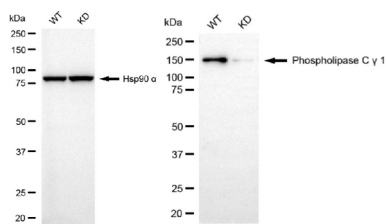
Background

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. [provided by RefSeq, Jul 2008]

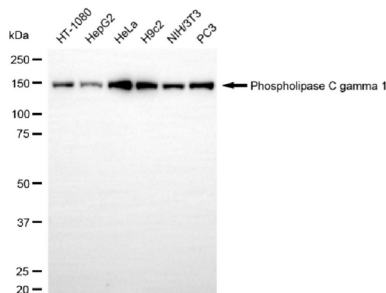
Research Area

Cardiovascular,Signal Transduction,Cancer,Metabolism

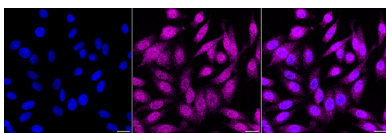
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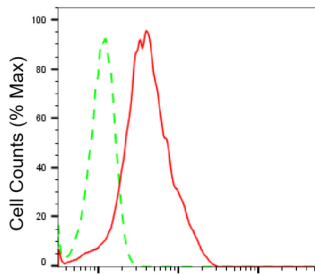
Western blotting analysis using phospholipase C gamma 1 antibody (KVA01265). Phospholipase C gamma 1 expression in wild type (WT) and phospholipase C gamma 1 (PLCG1) knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with phospholipase C gamma 1 antibody (KVA01265, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using phospholipase C gamma 1 antibody (KVA01265). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with phospholipase C gamma 1 antibody (KVA01265, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Phospholipase C gamma 1 antibody (KVA01265, 1:1,000). Nuclei were stained blue with DAPI; Phospholipase C gamma 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of Phospholipase C gamma 1 expression in HepG2 cells using Phospholipase C gamma 1 antibody (KVA01265, 1:2,000). Green, isotype control; red, Phospholipase C gamma 1.

Phospholipase C gamma 1-Alexa Fluor® 647