

Datasheet for ABIN5542312

**anti-Phospholipase C gamma 2 antibody (AA 826-985)**[Go to Product page](#)**5** Images

## Overview

Quantity:	100 µL
Target:	Phospholipase C gamma 2 (PLCG2)
Binding Specificity:	AA 826-985
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Phospholipase C gamma 2 antibody is un-conjugated
Application:	ELISA, Flow Cytometry (FACS), Immunocytochemistry (ICC)

## Product Details

Purpose:	PLCG2 Antibody
Immunogen:	Purified recombinant fragment of human PLCG2 (AA: 826-985) expressed in E. Coli.
Clone:	2D9E8
Isotype:	IgG1
Purification:	Purified antibody

## Target Details

Target:	Phospholipase C gamma 2 (PLCG2)
Alternative Name:	PLCG2 ( <a href="#">PLCG2 Products</a> )
Background:	Description: The protein encoded by this gene is a transmembrane signaling enzyme that

## Target Details

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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.

Aliases: FCAS3, APLAID, PLC-IV, PLC-gamma-2

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Molecular Weight: 147.9kDa

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Gene ID: 5336

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HGNC: 5336

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UniProt: [P16885](#)

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Pathways: [RTK Signaling](#), [WNT Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [Inositol Metabolic Process](#), [Myometrial Relaxation and Contraction](#), [Toll-Like Receptors Cascades](#), [VEGF Signaling](#), [BCR Signaling](#)

## Application Details

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Application Notes: ELISA: 1/10000  
FCM: 1/200 - 1/400  
ICC: 1/200 - 1/1000

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: Purified antibody in PBS with 0.05 % sodium azide.

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Preservative: Sodium azide

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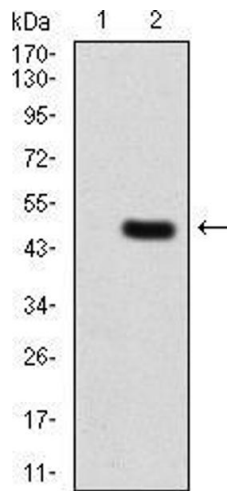
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Storage: 4 °C, -20 °C

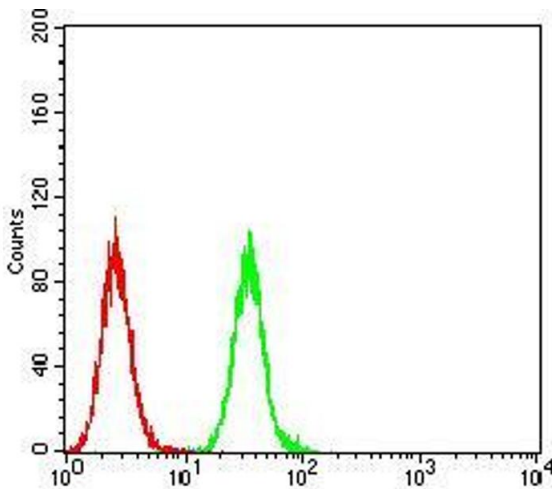
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Storage Comment: Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.



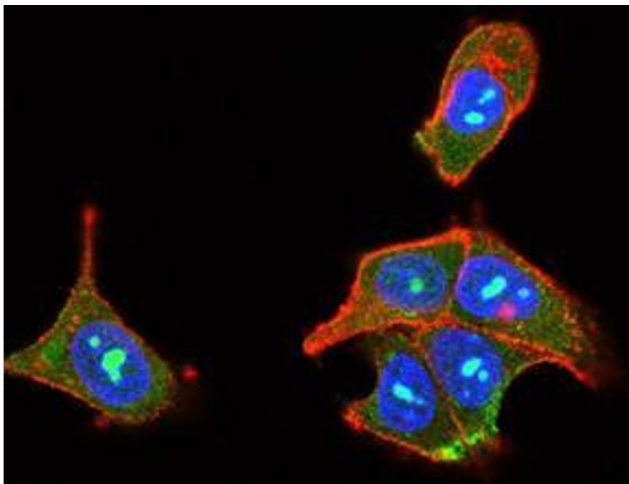
### Western Blotting

**Image 1.** Western blot analysis using PLCG2 mAb against HEK293 (1) and PLCG2 (AA: 826-985)-hlgGFc transfected HEK293 (2) cell lysate.



### Flow Cytometry

**Image 2.** Flow cytometric analysis of HeLa cells using PLCG2 mouse mAb (green) and negative control (red).



### Immunofluorescence

**Image 3.** Immunofluorescence analysis of MCF-7 cells using PLCG2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN5542312.