

Product Name: PLCG1 Mouse Monoclonal Antibody**Catalog #: AMM81779**

For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,ELISA,FC
Reactivity	Human,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2a
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:2000,ELISA 1:5000-1:20000,FC 1:200-1:400
Molecular Weight	148.5kDa

Antigen Information

Gene Name	PLCG1
Alternative Names	PLC1; NCKAP3; PLC-II; PLC148; PLCgamma1
Gene ID	5335.0
SwissProt ID	P19174
Immunogen	Purified recombinant fragment of human PLCG1 (AA: 39-181) expressed in E. Coli.

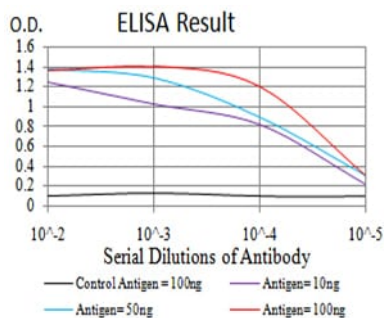
Background

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

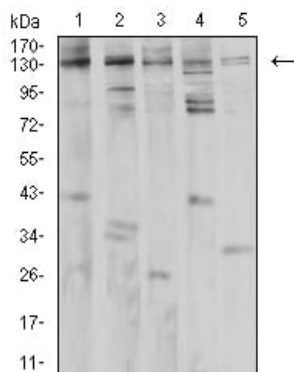
the Ras guanine nucleotide exchange factor RasGRP1 to translocate to the Golgi, where it activates Ras. Also, this protein has been shown to be a major substrate for heparin-binding growth factor 1 (acidic fibroblast growth factor)-activated tyrosine kinase. Two transcript variants encoding different isoforms have been found for this gene.

Research Area

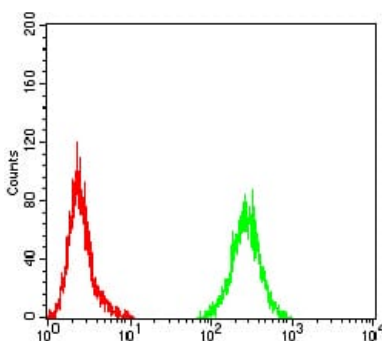
Image Data



Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



Western blot analysis using PLCG1 mouse mAb against Jurkat (1), K562 (2), A431 (3), HeLa (4), and PC-12 (5) cell lysate.



Flow cytometric analysis of HeLa cells using PLCG1 mouse mAb (green) and negative control (red).