

Product Name: PLCG1 Mouse Monoclonal Antibody

Catalog #: AMM81542

For research use only.

Summary

Description Mouse monoclonal Antibody

Host Mouse

Application WB,IHC,ICC,ELISA,FC **Reactivity** Human,Rat,Monkey

ConjugationUnconjugatedModificationUnmodifiedIsotypeMouse IgG1ClonalityMonoclonalFormLiquid

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,IHC 1:200-1:1000,ICC 1:200-1:1000,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: 1192-1291) expressed in E. Coli.

Background

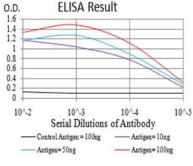
The protein encoded by this gene catalyzes the formation of inositol 1,4,5-trisphosphate and diacylglycerol from phosphatidylinositol 4,5-bisphosphate. This reaction uses calcium as a cofactor and plays an important role in the intracellular transduction of receptor-mediated tyrosine kinase activators. For example, when activated by SRC, the encoded protein causes



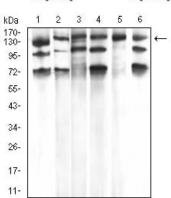
the Ras guanine nucleotide exchange factor RasGRP1 to translocate to the Golgi, where it activates Ras. Also, this protein has been shown to be a major substrate for heparin-binding growth factor 1 (acidic fibroblast growth factor)-activated tyrosine kinase. Two transcript variants encoding different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

Research Area

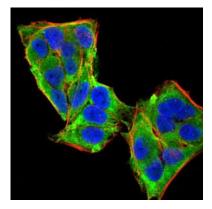
Image Data



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



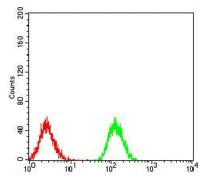
Western blot analysis using PLCG1 mouse mAb against Hela (1), A431 (2), C6 (3), NIH/3T3 (4), COS7 (5), and HCT116 (6) cell lysate.



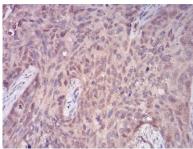
Immunofluorescence analysis of HeLa cells using PLCG1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.

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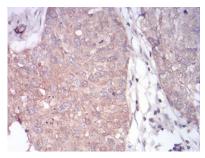




Flow cytometric analysis of Jurkat cells using PLCG1 mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissues using PLCG1 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human bladder cancer tissues using PLCG1 mouse mAb with DAB staining.