

## PLC gamma 1 Antibody

Rabbit mAb Catalog # AP90641

#### **Specification**

### PLC gamma 1 Antibody - Product Information

Application WB, ICC, IP
Primary Accession P19174
Reactivity Rat

Clonality Monoclonal

**Other Names** 

PLC-148; PLC-II; PLC-gamma1; PLC1; PLCG-1; Phospholipase C-gamma-1;

Isotype Rabbit IgG
Host Rabbit
Calculated MW 148532 Da

# PLC gamma 1 Antibody - Additional Information

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human

PLC gamma 1

Description 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 quanine nucleotide

exchange factor RasGRP1 to translocate to

the Golgi, where it activates Ras.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline ,

pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid

freeze / thaw cycle.

# **PLC gamma 1 Antibody - Protein Information**

Name PLCG1 (HGNC:9065)

Synonyms PLC1

#### **Function**

Mediates the production of the second messenger molecules diacylglycerol (DAG) and inositol



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1,4,5-trisphosphate (IP3). Plays an important role in the regulation of intracellular signaling cascades. Becomes activated in response to ligand-mediated activation of receptor-type tyrosine kinases, such as PDGFRA, PDGFRB, EGFR, FGFR1, FGFR2, FGFR3 and FGFR4 (By similarity). Plays a role in actin reorganization and cell migration (PubMed:<a href="http://www.uniprot.org/citations/17229814" target=" blank">17229814</a>). Guanine nucleotide exchange factor that binds the GTPase DNM1 and catalyzes the dissociation of GDP, allowing a GTP molecule to bind in its place, therefore enhancing DNM1-dependent endocytosis (By similarity).

### **Cellular Location**

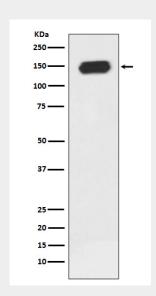
Cell projection, lamellipodium. Cell projection, ruffle. Note=Rapidly redistributed to ruffles and lamellipodia structures in response to epidermal growth factor (EGF) treatment.

### PLC gamma 1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## PLC gamma 1 Antibody - Images



Western blot analysis of PLC gamma 1 expression in Jurkat cell lysate.