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

Dilution	**WB~~1:1000** **ICC~~N/A** **IP~~N/A**
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 guanine 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 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:17229814). 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).
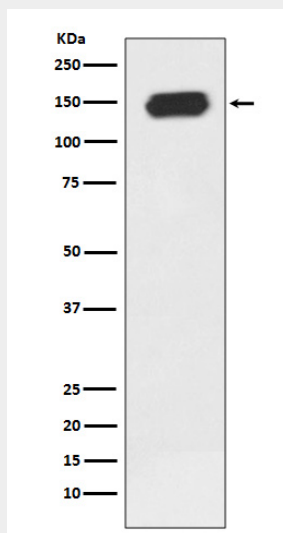
Cellular Location
Cell projection, lamellipodium. Cell projection, ruffle. Note=Rapidly redistributed to ruffles and lamellipodia structures in response to epidermal growth factor (EGF) treatment.

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.