For Research Use Only

PLCG1 Recombinant antibody

Catalog Number:84941-1-RR



Basic Information

Catalog Number: GenBank Accession Number:

84941-1-RR GeneID (NCBI):

5335 100ul , Concentration: 1000 µg/ml by UNIPROT ID: Nanodrop: P19174

Full Name: Rabbit

phospholipase C, gamma 1 Isotype:

Calculated MW: IgG 149 kDa

Immunogen Catalog Number:

AG27218

Applications Tested Applications:

IF/ICC, ELISA

Species Specificity:

Purification Method: Protein A purification

CloneNo.: 242529A11

Recommended Dilutions: IF/ICC 1:125-1:500

Background Information

Phosphoinositide phospholipase C-gamma-1 (PLCG1) which belongs to the phosphoinositide-specific $phospholip as C\ (PLC)\ family, is\ activated\ by\ many\ extracellular\ stimuli\ including\ hormones,\ neurotransmitters,$ and growth factors and modulates several cellular and physiological functions necessary for tumorigeneses such as cell survival, migration, invasion, and angiogenesis by generating inositol 1,4,5-triphosphate (IP3) and diacylglycerol (DAG) via hydrolysis of phosphatidylinositol 4,5-biphosphate (PIP2) (PMID: 9242915). Phosphorylation is one of the key mechanisms that regulate the activity of PLC. PLCy is activated by both receptor and non-receptor tyrosine kinases (PMID: 2472218). PLCy forms a complex with EGF and PDGF receptors, which leads to the phosphorylation of PLCy at Tyr771, 783, and 1248 (PMID: 1708307). It has also been shown that PKAmediated phosphorylation at Ser1248 is inhibitory to PLCy 1 tyrosine phosphorylation and phospholipase activity in CD3-treated Jurkat cells (PMID: 1370476), suggesting that Ser1248 may be an allosteric regulator of PLCy 1 activity.

Positive Controls:

IF/ICC : Jurkat cells,

Storage

Store at -20°C. Stable for one year after shipment.

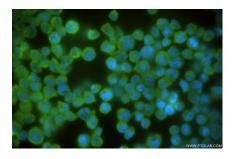
Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using PLCG1 antibody (84941-1-RR, Clone: 242529A11) at dilution of 1:250 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).