For Research Use Only

PLCG1 Recombinant antibody

Catalog Number:84941-4-RR

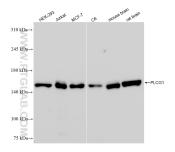


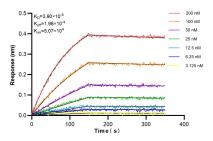
Basic Information	Catalog Number: 84941-4-RR Concentration: 1000 µ g/ml Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG27218	GenBank Accession Number: GeneID (NCBI): 5335 UNIPROT ID: P19174 Full Name: phospholipase C, gamma 1 Calculated MW: 149 kDa Observed MW: 149 kDa	Purification Method: Protein A purfication CloneNo.: 242529B11 Recommended Dilutions: WB 1:5000-1:50000
Applications	Tested Applications: WB, ELISA Species Specificity: human, mouse, rat	Positive Controls: WB : HEK-293 cells, Jurkat cells, MCF-7 cells, C6 cells, mouse brain tissue, rat brain tissue	
Background Information	Phosphoinositide phospholipase C-gamma-1 (PLCG1) which belongs to the phosphoinositide-specific phospholipase 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. PLC γ is activated by both receptor and non-receptor tyrosine kinases (PMID: 2472218). PLC γ forms a complex with EGF and PDGF receptors, which leads to the phosphorylation of PLC γ at Tyr771, 783, and 1248 (PMID: 1708307). It has also been shown that PKA-mediated phosphorylation at Ser1248 is inhibitory to PLC γ 1 tyrosine phosphorylation and phospholipase activity in CD3-treated Jurkat cells (PMID: 1370476), suggesting that Ser1248 may be an allosteric regulator of PLC γ 1 activity.		
Storage	Storage: Store at -20°C. Stable for one year Storage Buffer: PBS with 0.02% sodium azide and Aliquoting is unnecessary for -20°	50% glycerol pH 7.3.	

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data





Various lysates were subjected to SDS PAGE followed by western blot with 84941-4-RR (PLCG1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. Biolayer interferometry (BLL) kinetic assays of 84941-4-RR against Human PLCG1 were performed. The affinity constant is 3.90 nM.