

For Research Use Only

PLCG1 Recombinant antibody, PBS Only

Catalog Number: 84941-4-PBS



Basic Information

Catalog Number: 84941-4-PBS	GenBank Accession Number: GeneID (NCBI): 5335	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	UNIPROT ID: P19174	CloneNo.: 242529B11
Source: Rabbit	Full Name: phospholipase C, gamma 1	
Isotype: IgG	Calculated MW: 149 kDa	
Immunogen Catalog Number: AG27218	Observed MW: 149 kDa	

Applications

Tested Applications:
WB, Indirect ELISA
Species Specificity:
human, mouse, rat

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 tumorigenesis 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-bisphosphate (PIP2) (PMID: 9242915). Phosphorylation is one of the key mechanisms that regulate the activity of PLC. PLCγ is activated by both receptor and non-receptor tyrosine kinases (PMID: 2472218). PLCγ forms a complex with EGF and PDGF receptors, which leads to the phosphorylation of PLCγ at Tyr771, 783, and 1248 (PMID: 1708307). It has also been shown that PKA-mediated phosphorylation at Ser1248 is inhibitory to PLCγ 1 tyrosine phosphorylation and phospholipase activity in CD3-treated Jurkat cells (PMID: 1370476), suggesting that Ser1248 may be an allosteric regulator of PLCγ 1 activity.

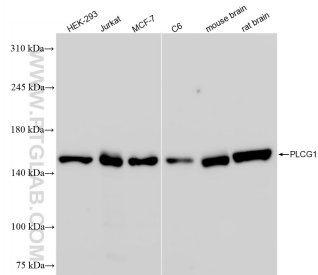
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS Only

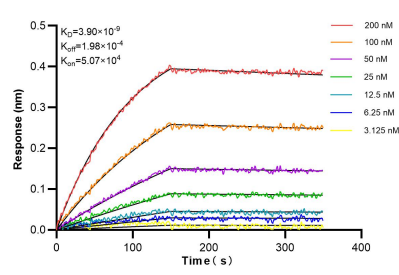
For technical support and original validation data for this product please contact:
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Selected Validation Data



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. This data was developed using the same antibody clone with 84941-4-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 84941-4-RR against Human PLCG1 were performed. The affinity constant is 3.90 nM.