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## PLCG1 Polyclonal antibody Catalog Number: 28362-1-AP 1 Publications

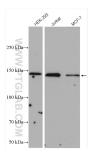


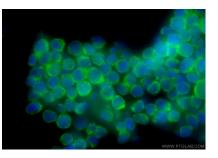
Basic Information	Catalog Number: 28362-1-AP Size: 850 ug/ml Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG27218	Genel D (NCE 5335 UNIPROT ID: P19174 Full Name:	se C, gamma 1 /W:	Purification Method: Antigen affinity purification Recommended Dilutions: WB 1:1000-1:4000 IF/ICC 1:200-1:800	
Applications	Tested Applications: WB, IF/ICC, ELISA Cited Applications: WB Species Specificity: human Cited Species: human		Positive Controls: WB : HEK-293 cells, Jurkat cells, MCF-7 cells IF/ICC : Jurkat cells,		
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 $\gamma$ is activated by both receptor and non-receptor tyrosine kinases (PMID: 2472218). PLC $\gamma$ forms a complex with EGF and PDGF receptors, which leads to the phosphorylation of PLC $\gamma$ at Tyr771, 783, and 1248 (PMID: 1708307). It has also been shown that PKA-mediated phosphorylation at Ser1248 is inhibitory to PLC $\gamma$ 1 tyrosine phosphorylation and phospholipase activity in CD3-treated Jurkat cells (PMID: 1370476), suggesting that Ser1248 may be an allosteric regulator of PLC $\gamma$ 1 activity.				
Notable Publications	Author	Pubmed ID	Journal	Application	
	Yao-Qi Zhou	37012514	Cell Oncol (Dordr	) WB	
Storage	Storage: Store at -20°C. Stable for one year Storage Buffer: PBS with 0.02% sodium azide an Aliquoting is unnecessary for -20	d 50% glycerol pH	17.3.		

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

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## Selected Validation Data





Various lysates were subjected to SDS PAGE followed by western blot with 28362-1-AP (PLCG1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using PLCG1 antibody (28362-1-AP) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).