

12-4096: Phospho-PLC γ 1 (Tyr783) (Clone: C4) rabbit mAb

Clonality :	Monoclonal
Clone Name :	PLCG1Y783-C4
Application :	FACS
Reactivity :	Human
Conjugate :	Unconjugated
Format :	Purified
Alternative Name :	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase gamma-1, PLC-148, Phosphoinositide phospholipase C-gamma-1, Phospholipase C-II, Phospholipase C-gamma-1, PLC-gamma-1, PLC1
Isotype :	Rabbit IgG1k
Immunogen Information :	A synthetic phospho-peptide corresponding to residues surrounding Tyr783 of human phospho PLC γ 1.

Description

The Phospholipase C (PLC) isozymes hydrolyze phosphatidyl inositolphosphate to inositol triphosphate and diacylglycerol. In response to extracellular stimuli such as hormones, growth factors and neurotransmitters, PLC hydrolyzes phosphatidylinositol 4,5-bisphosphate (PIP₂) to generate diacylglycerols (DAGs) and water-soluble phosphorylated derivatives, such as inositol 1,4,5-triphosphate (IP₃). Within the PLC family, PLC γ is the only member that contains SH2 and SH3 domains, necessary for phospho PLC γ activation. Phospho PLC γ , upon activation, can interact with receptor tyrosine kinases.

Product Info

Amount :	20 μ l / 200 μ l
Content :	1X PBS, 0.02% NaN ₃ , 50% Glycerol, 0.1% BSA
Storage condition :	Store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

1 μ g/mL - 0.001 μ g/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.(0.5mg/ml)

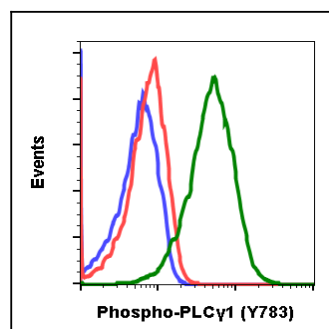


Fig-1: Flow cytometric analysis of Hela cells secondary antibody only negative control (blue) or treated with imatinib (red) or with pervanadate (green) using 0.01 μ g/mL Phospho-PLC γ 1 (Tyr783) antibody PLC γ 1Y783-C4.

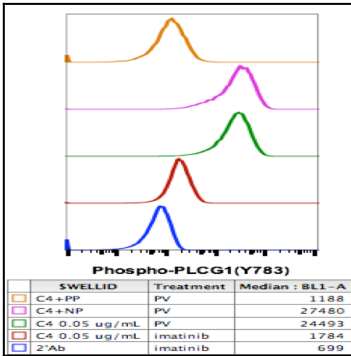


Fig 2 : Peptide blockage flow cytometric analysis of HeLa cells secondary antibody only negative control (blue) treated with imatinib (red) treated with pervanadate (green) treated with PV + blocked with non-phospho- peptide (violet) or treated with PV + blocked with phospho-peptide (brown) using Phospho-PLCg1 (Tyr783) antibody at 0.05 µg/mL PLCg1Y783-C4.

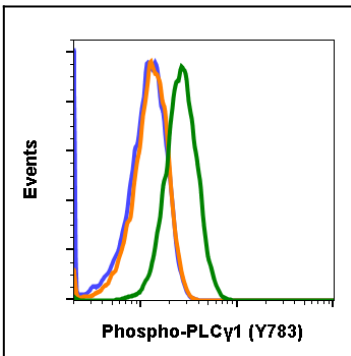


Fig-3: PLCg1Y783-C4 recognizes basal phosphorylation levels in mouse cells. Flow cytometric analysis of L929 cells secondary antibody only (blue) or 0.1 µg/mL of isotype control (Cat# 12-4086) (orange) or of Phospho-PLCg1 (Tyr783) antibody PLCg1Y783-C4 (green).

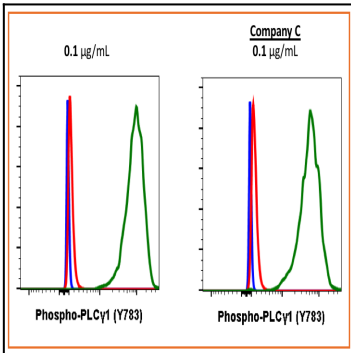


Fig-4: Flow cytometric analysis of HeLa cells secondary antibody only negative control (blue) or treated with imatinib (red) or with pervanadate (green) using Phospho-PLCg1 (Tyr783) antibody PLCg1Y783-C4 or Company C antibody at 0.1 µg/mL (manufacturer's recommended concentration).