9853 Pacific Heights Blvd.
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12-4096: Phospho-PLCg1 (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 PLCg1.

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, PLCg is the only member that contains SH2 and SH3 domains, necessary for phospho PLCg activation. Phospho PLCg, upon activation, can interact with receptor tyrosine kinases.

Product Info

Amount :	20 µl / 200 µl
Content :	1X PBS, 0.02% NaN3, 50% Glycerol, 0.1% BSA
Storage condition :	Store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

1µg/mL - 0.001µg/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)

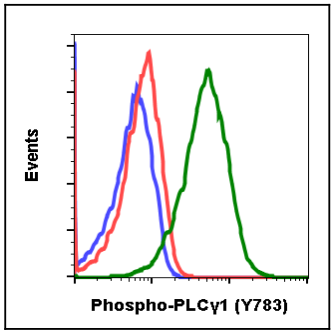

Fig-1: Flow cytometric analysis of Hela cells secondary antibody only negative control (blue) or treated with imatinib (red) or with pervanadate (green) using 0.01 µg/mL Phospho-PLCg1 (Tyr783) antibody PLCg1Y783-C4.

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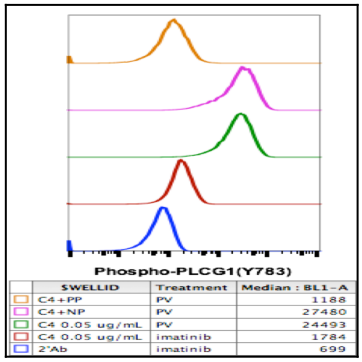

Fig 2 : Peptide blockage flow cytometric analysis of Hela cells secondary antibody only negative control (blue) treated with imatinib (red) treated with pervanadate (green) treated with PV + blocked with non-phospho- peptide (violet) or treated with PV + blocked with phospho-peptide (brown) using Phospho-PLCg1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

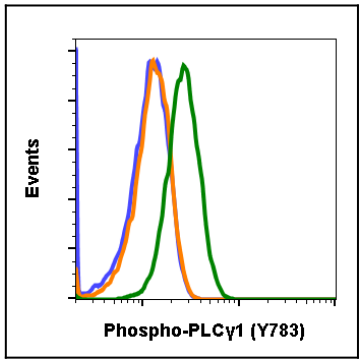

Fig-3: PLCg1Y783-C4 recognizes basal phosphorylation levels in mouse cells. Flow cytometric analysis of L929 cells secondary antibody only (blue) or 0.1 µg/mL of isotype control (Cat# 12-4086) (orange) or of Phospho-PLCg1 (Tyr783) antibody PLCg1Y783-C4 (green).

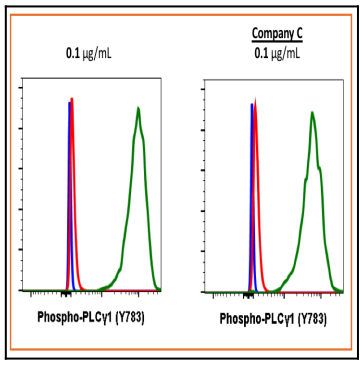

Fig-4: Flow cytometric analysis of HeLa cells secondary antibody only negative control (blue) or treated with imatinib (red) or with pervanadate (green) using Phospho-PLCg1 (Tyr783) antibody PLCg1Y783-C4 or Company C antibody at 0.1 µg/mL (manufacturer's recommended concentration).