

## 12-4096: Phospho-PLC $\gamma$ 1 (Tyr783) (Clone: C4) rabbit mAb

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	PLCG1Y783-C4
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Conjugate :</b>	Unconjugated
<b>Format :</b>	Purified
<b>Alternative Name :</b>	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
<b>Isotype :</b>	Rabbit IgG1k
<b>Immunogen Information :</b>	A synthetic phospho-peptide corresponding to residues surrounding Tyr783 of human phospho PLC $\gamma$ 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 (PIP<sub>2</sub>) to generate diacylglycerols (DAGs) and water-soluble phosphorylated derivatives, such as inositol 1,4,5-triphosphate (IP<sub>3</sub>). Within the PLC family, PLC $\gamma$  is the only member that contains SH2 and SH3 domains, necessary for phospho PLC $\gamma$  activation. Phospho PLC $\gamma$ , upon activation, can interact with receptor tyrosine kinases.

### Product Info

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

### Application Note

1 $\mu$ g/mL - 0.001 $\mu$ 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)

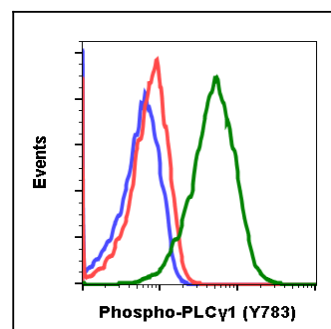


Fig-1: Flow cytometric analysis of Hela cells secondary antibody only negative control (blue) or treated with imatinib (red) or with pervanadate (green) using 0.01  $\mu$ g/mL Phospho-PLC $\gamma$ 1 (Tyr783) antibody PLC $\gamma$ 1Y783-C4.

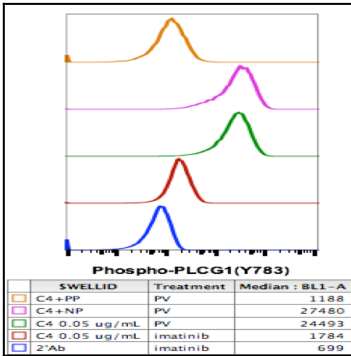


Fig 2 : Peptide blockage flow cytometric analysis of HeLa cells secondary antibody only negative control (blue) treated with imatinib (red) treated with pervanadate (green) treated with PV + blocked with non-phospho- peptide (violet) or treated with PV + blocked with phospho-peptide (brown) using Phospho-PLCg1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

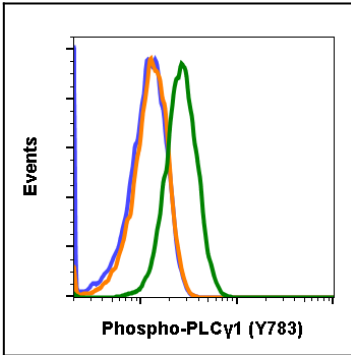


Fig-3: PLCg1Y783-C4 recognizes basal phosphorylation levels in mouse cells. Flow cytometric analysis of L929 cells secondary antibody only (blue) or 0.1 µg/mL of isotype control (Cat# 12-4086) (orange) or of Phospho-PLCg1 (Tyr783) antibody PLCg1Y783-C4 (green).

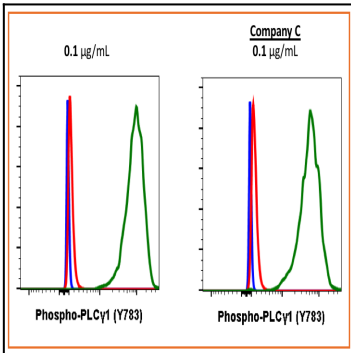


Fig-4: Flow cytometric analysis of HeLa cells secondary antibody only negative control (blue) or treated with imatinib (red) or with pervanadate (green) using Phospho-PLCg1 (Tyr783) antibody PLCg1Y783-C4 or Company C antibody at 0.1 µg/mL (manufacturer's recommended concentration).