Phospho-PLCγ1 (Tyr783) (C4) rabbit mAb

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Catalog: #2201 **Store at:** -20ºC

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Detection	Clonality	Isotype
Flow Cytometry	Anti-Rabbit IgG	Monoclonal	Rabbit IgGk

Format: Unconjugated

Cross Reactivity: Predicted to work with mouse, rat, and other homologues.

Formulation: 1X PBS, 0.02% NaN3, 50% Glycerol, 0.1% BSA

Preparation: Protein A+G

Reactivity: Human,Mouse

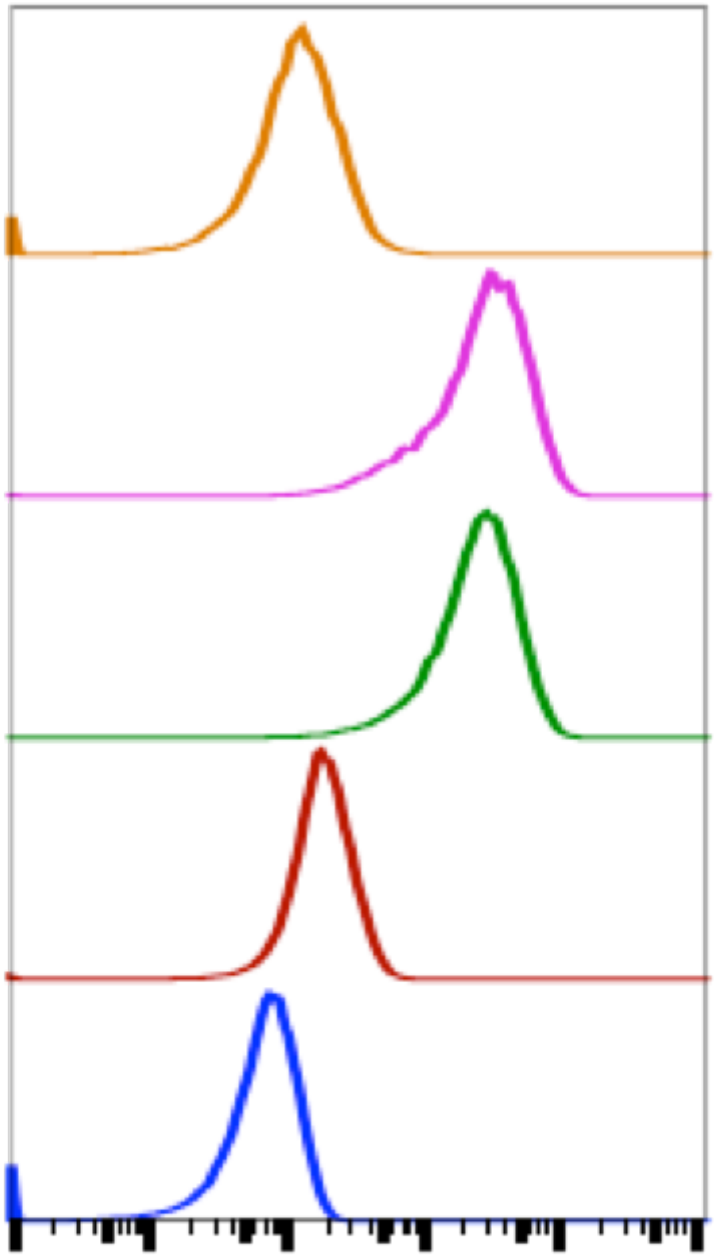
Recommended Usage: 1µg/mL – 0.001µg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

Immunogen: A synthetic phospho-peptide corresponding to residues surrounding Tyr783 of human phospho PLCγ1.

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

References:

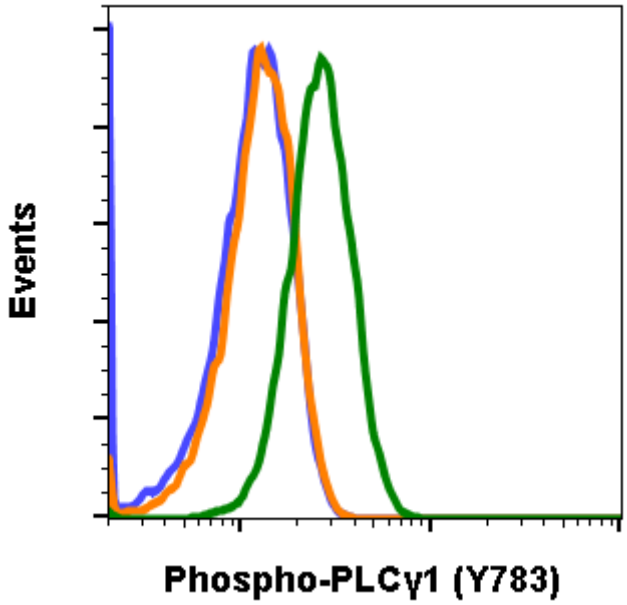
1. Singer, W.D. et al. (1997) Annu. Rev. Biochem. 66, 475–509.
2. Hernandez D, et al. (1994) Genomics 23 (2): 504–507.
3. Smrcka, A.V. et al. (1991) Science 251, 804–807.
4. Taylor, S.J. et al. (1991) Nature 350, 516–518.



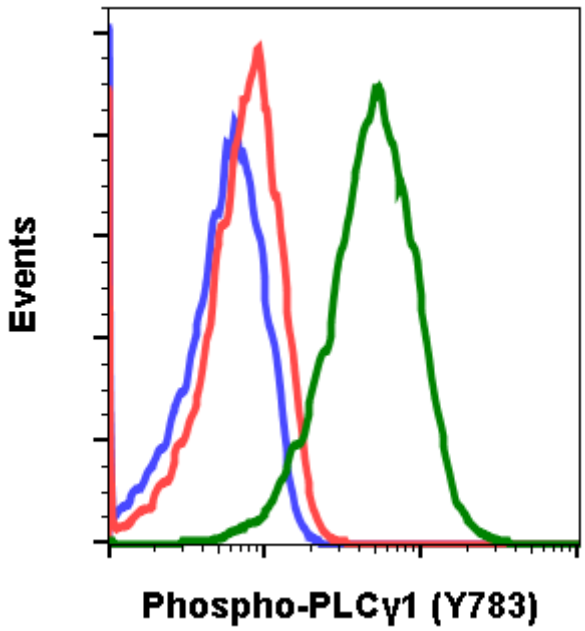
Phospho-PLCG1(Y783)

	$WELLID	Treatment	Median : BL1-A
	C4+PP	PV	1188
	C4+NP	PV	27480
	C4 0.05 ug/mL	PV	24493
	C4 0.05 ug/mL	imatinib	1784
	2'Ab	imatinib	699

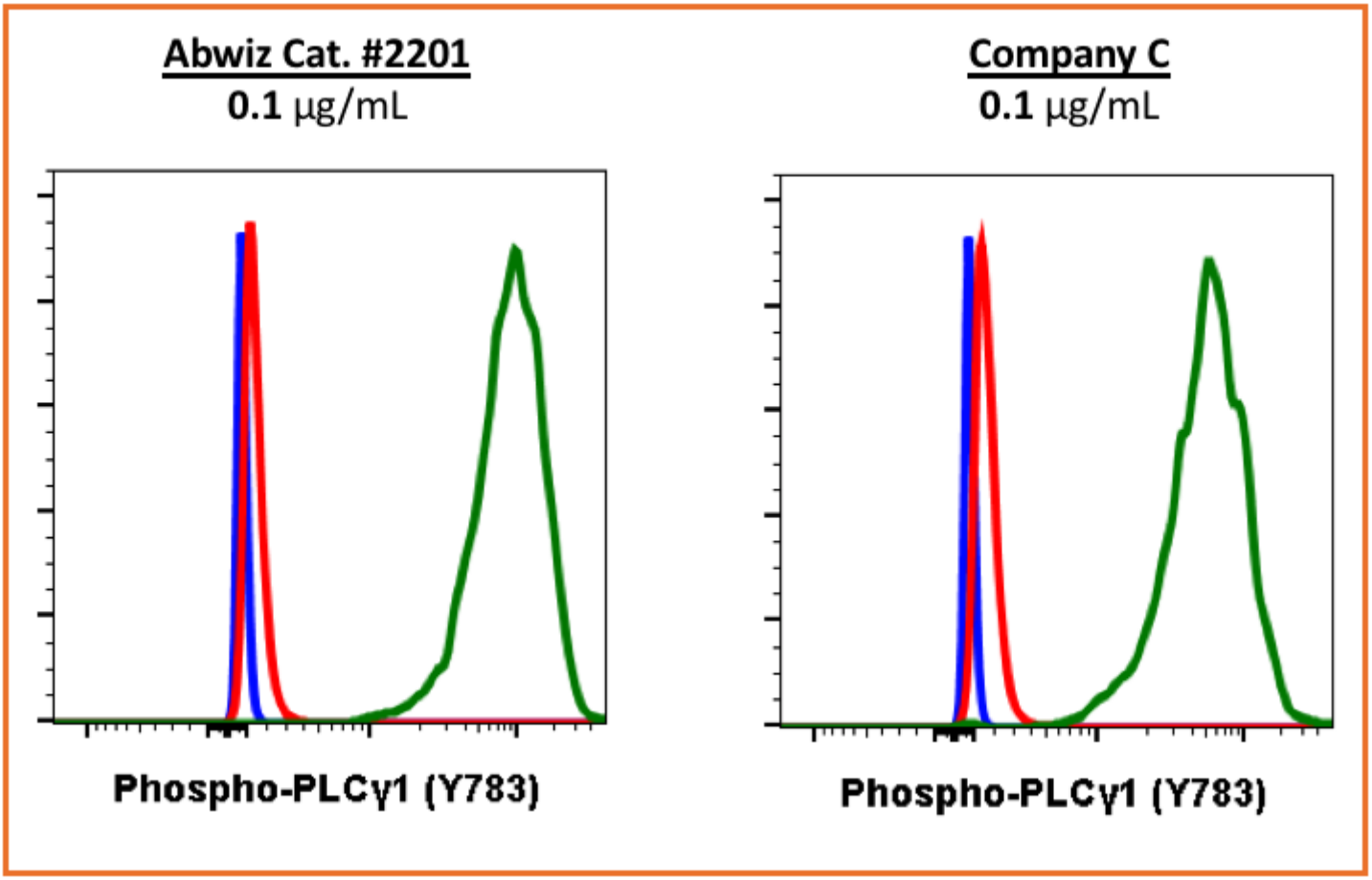
Peptide blockage flow cytometric analysis of Hela cells secondary antibody only negative control (blue) treated with imatinib (red) treated with pervanadate (green) treated with PV + blocked with non-phospho- peptide (violet) or treated with PV + blocked with phospho-peptide (brown) using Phospho-PLCγ1 (Tyr783) antibody at 0.05 µg/mL PLCg1Y783-C4. Cat. #2201.



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. #2141 (orange) or of Phospho-PLCγ1 (Tyr783) antibody PLCg1Y783-C4 (green) Cat. #2201.



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-PLCγ1 (Tyr783) antibody PLCg1Y783-C4. Cat. #2201.



Flow cytometric analysis of HeLa cells secondary antibody only negative control (blue) or treated with imatinib (red) or with pervanadate (green) using Phospho-PLCγ1 (Tyr783) antibody PLCg1Y783-C4 (Abwiz Cat. #2201) or Company C antibody at 0.1 ug/mL (manufacturer's recommended concentration).