Phospho-PLCγ1 (Tyr783) (C4) rabbit mAb PE conjugate

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

Applications	Detection	Clonality	Isotype
Flow Cytometry	N/A	Monoclonal	Rabbit IgGk

Format: PE

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

Formulation: 1X PBS, 0.09% NaN3, 0.2% BSA

Preparation: Protein A+G

Reactivity: Human,Mouse

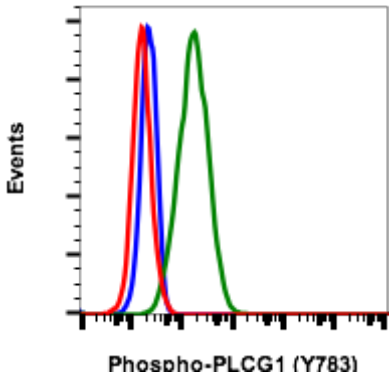
Recommended Usage: For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells or 5 µL per 100 µL of staining volume. It is recommended that the reagent be titrated for optimal performance for each application.

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.



Flow cytometric analysis of Hela cells unstained imatinib treated (blue) or stained treated with imatinib (red) or with pervanadate (green) using phospho-PLCγ1 (Tyr783) antibody PLCg1Y783-C4 PE conjugate. Cat. #2202.