

Phospho-PLC γ 1 (Tyr783) (C4) rabbit mAb FITC conjugate

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

Format: FITC

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

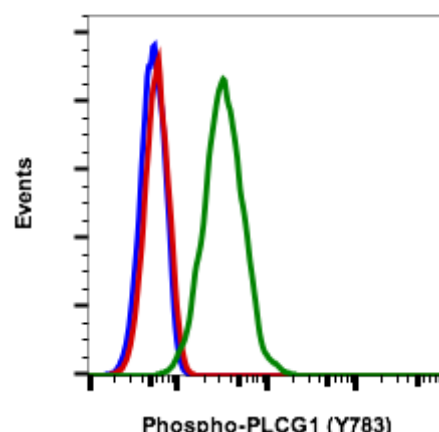
Recommended Usage: For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells or 5 μ L per 100 μ L of staining volume. It is recommended that the reagent be titrated for optimal performance for each application.

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

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 cells (blue) or stained treated with imatinib (red) or with pervanadate (green) using phospho-PLCγ1 (Tyr783) antibody PLCg1Y783-C4 FITC conjugate. Cat. #2203.