

Phospho-PLC γ 2 (Tyr759) (G3) rabbit mAb PE conjugate

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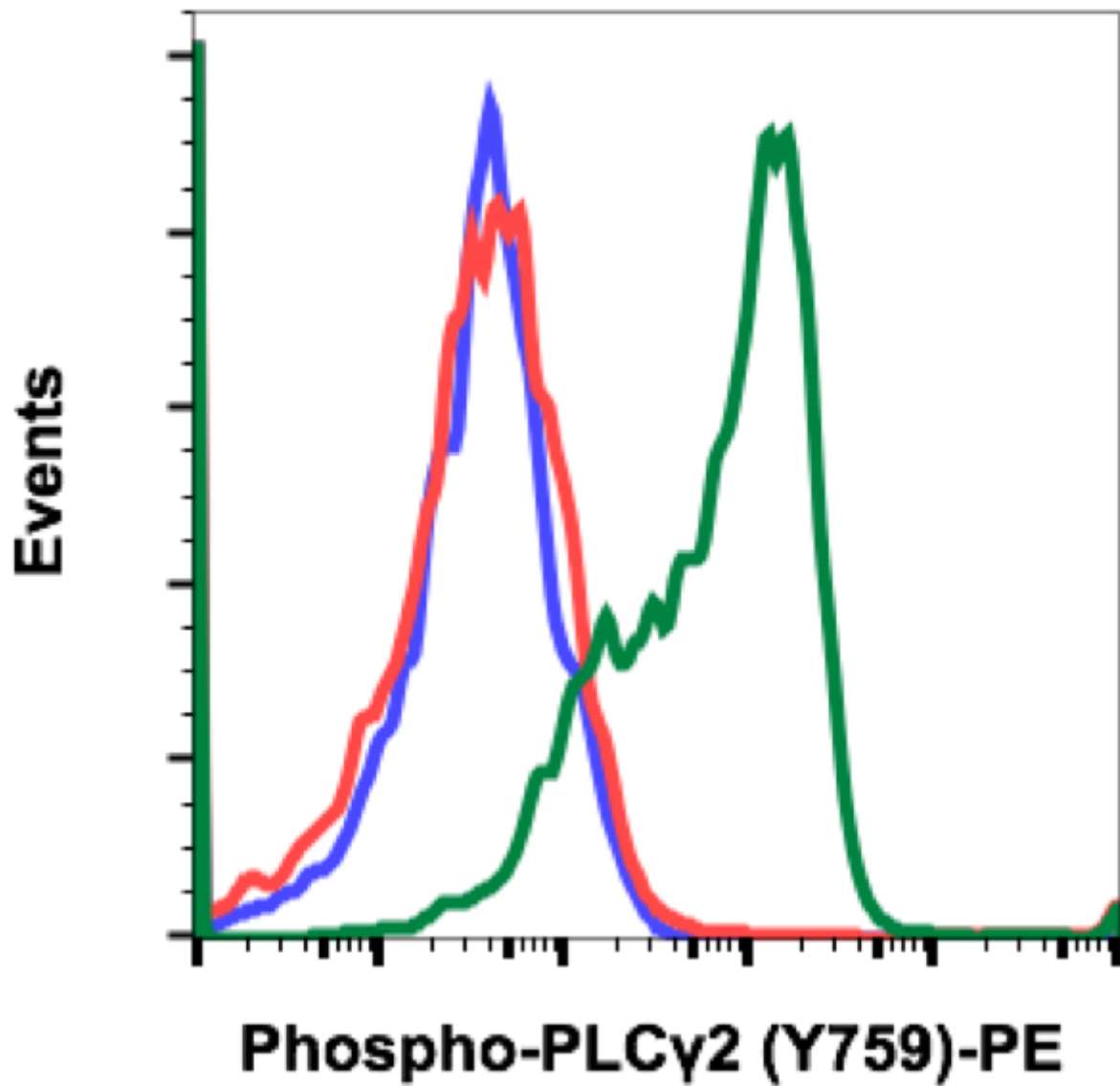
Catalog: #1167

Store at: 2-8°C

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% NaN ₃ , 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 Tyr759 of human phospho PLC γ 2. |
| Description: | The PLC-gamma isoforms of the PI-PLC family of lipases are regulated by growth factor receptors and B- and T-cell antigen receptors. While PLC γ 1 is expressed ubiquitously, PLC γ 2 is predominantly expressed in liver cells. PLC γ 2 plays a dominant role in B-cell signaling. Btk directly phosphorylates PLC γ 2, though the Syk kinase and BLNK adaptor protein are required. Both Tyr753 and Tyr759 have been identified as important phosphorylation sites for PLC γ 2 activation in B-cells. PLC γ 2 missense mutations and genomic deletions have been identified in autoimmune diseases in humans. These include gain-of-function mutations, such as S707T, that possibly introduce an additional phosphorylation site and increase basal PLC γ 2 activity. |
| References: | Rodriguez R, Matsuda M, Perisic O, Bravo J, Paul A, Jones NP, Light Y, Swann K, Williams RL, and Katan M. (2001) Journal of Biological Chemistry. 276:47982-47992. Zhou Q, Lee G, Brady J et al. (2012) American Journal of Human Genetics. 4:713-720 |



Flow cytometric analysis of Ramos cells unstained treated with imatinib (blue) or stained and treated with imatinib (red) or treated with pervanadate (green) using phospho-PLCγ2 (Tyr759) antibody PLCG2Y759-G3 PE conjugate. Cat. #1167.