

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

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#1166

Store at: -20°C

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

Applications	Detection	Clonality	Isotype
Flow Cytometry, WB	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

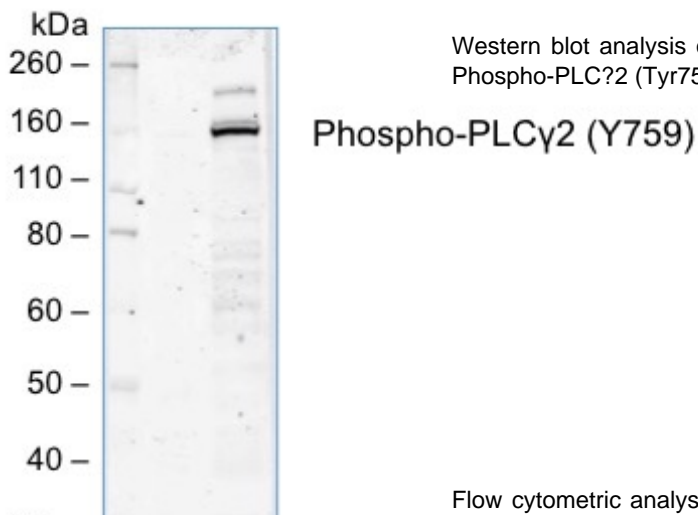
Usage: 1µg/mL ? 0.001µg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

Immunogen: A synthetic phospho-peptide corresponding to residues surrounding Tyr759 of human phospho PLC γ 2.

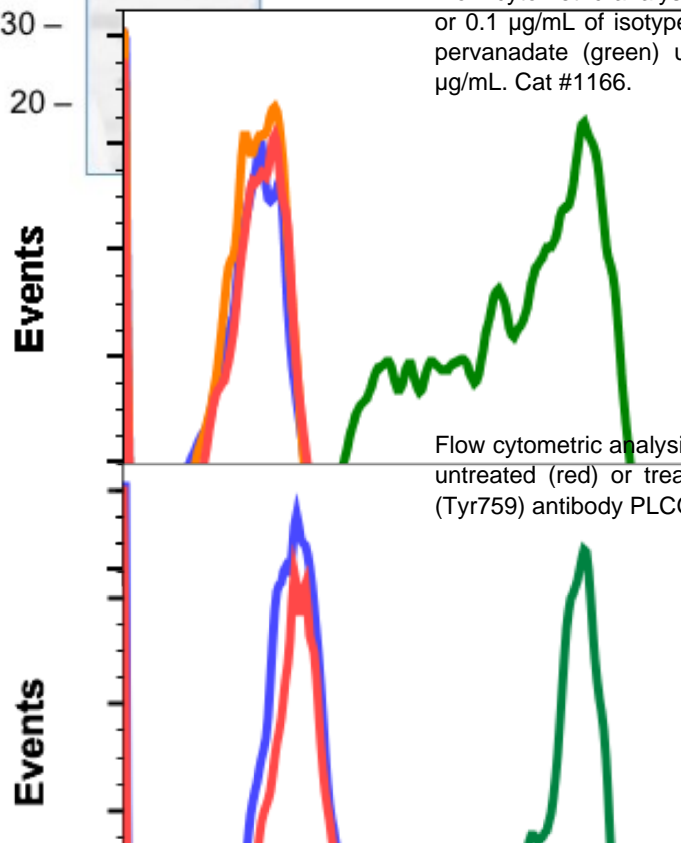
Description: The PLC-gamma isoforms of the PI-PLC family of lipases are regulated by growth factor receptors and B- and T-cell antigen receptors. While PLC γ 1 is expressed ubiquitously, PLC γ 2 is predominantly expressed in liver cells. PLC γ 2 plays a dominant role in B-cell signaling. Btk directly 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



Western blot analysis of Ramos cell extract untreated or treated with pervanadate using Phospho-PLC γ 2 (Tyr759) antibody PLCG2Y759-G3. Cat. #1166.

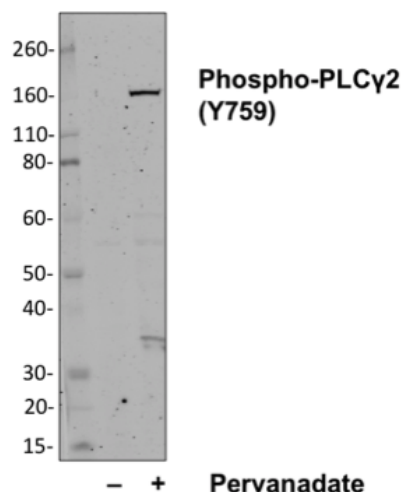


Flow cytometric analysis of NIH3T3 cells secondary antibody only negative control (blue) or 0.1 μ g/mL of isotype control Cat. #2141 (orange) or treated with imatinib (red) or with pervanadate (green) using Phospho-PLC γ 2 (Tyr759) antibody PLCG2Y759-G3 at 0.1 μ g/mL. Cat #1166.

Flow cytometric analysis of Ramos cells secondary antibody only negative control (blue) or untreated (red) or treated with pervanadate (green) using 0.01 μ g/mL Phospho-PLC γ 2 (Tyr759) antibody PLCG2Y759-G3. Cat. #1166.

Abwiz Cat. #1166

0.01 μ g/mL



Company C

Western blot analysis of Ramos cell extract untreated or treated with pervanadate using 0.01 μ g/mL Phospho-PLC γ 2 (Tyr759) antibody PLCG2Y759-G3 Cat. #1166 or Company C (recommended conc.) (manufacturer's recommended concentration) developed using the same exposure.

