Phospho-PLCγ2 (Tyr759) (G3) rabbit mAb

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Catalog: #1166 **Store at:** -20ºC

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

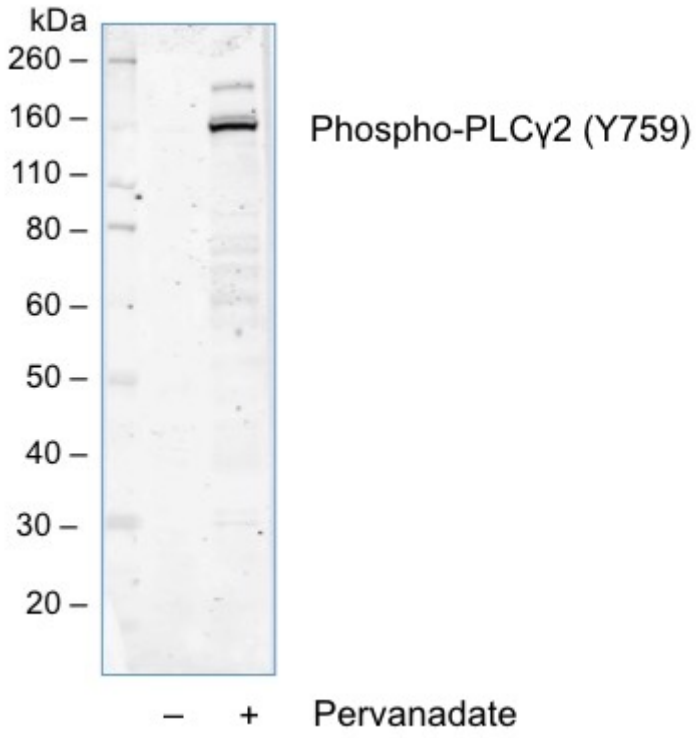
Recommended Usage: 1µg/mL – 0.001µg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

Immunogen: A synthetic phospho-peptide corresponding to residues surrounding Tyr759 of human phospho PLCγ2.

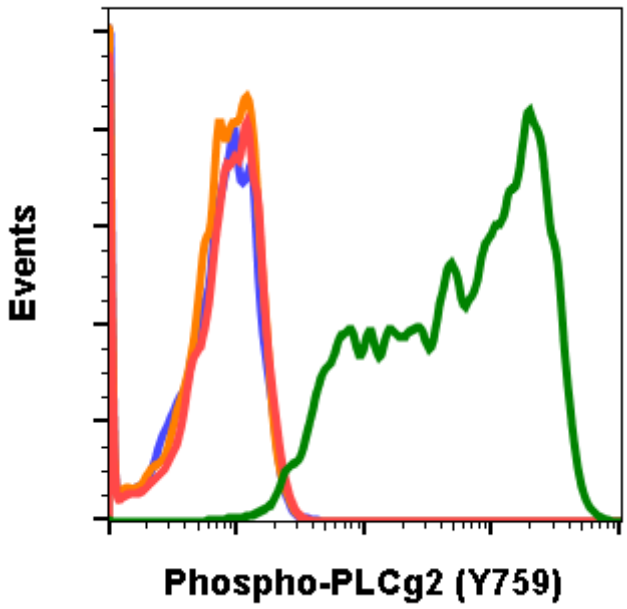
Description: The PLC-gamma isoforms of the PI-PLC family of lipases are regulated by growth factor receptors and B- and T-cell antigen receptors. While PLCγ1 is expressed ubiquitously, PLCγ2 is predominantly expressed in liver cells. PLCγ2 plays a dominant role in B-cell signaling. Btk directly phosphorylates PLCγ2, though the Syk kinase and BLNK adaptor protein are required. Both Tyr753 and Tyr759 have been identified as important phosphorylation sites for PLCγ2 activation in B-cells. PLCγ2 missense mutations and genomic deletions have been identified autoinflammatory diseases in humans. These include gain-of-function mutations, such as S707T, that possibly introduce an additional phosphorylation site and increase basal PLCγ2 activity.

References:

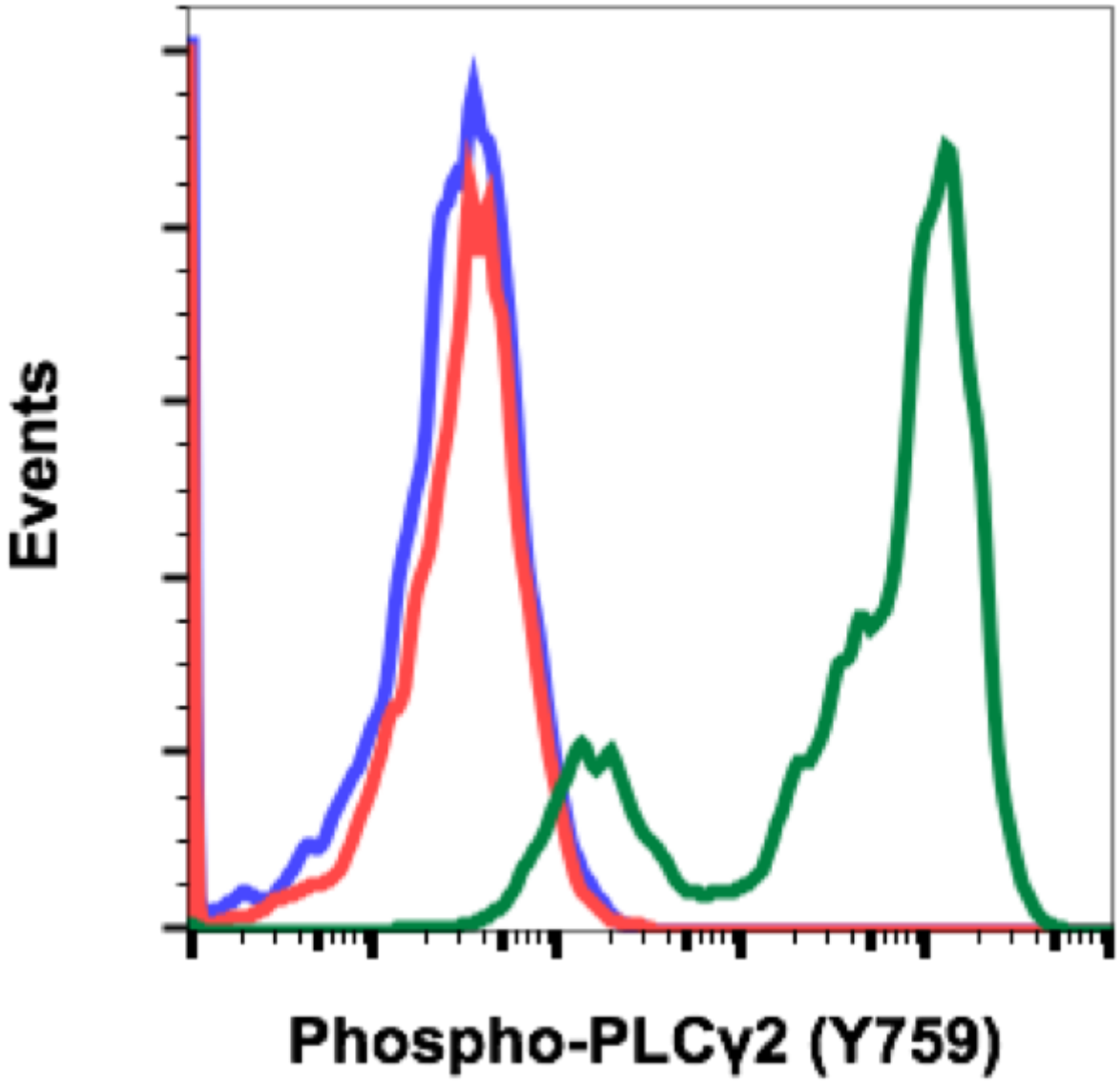
Rodriguez R, Matsuda M, Perisic O, Bravo J, Paul A, Jones NP, Light Y, Swann K, Williams RL, and Katan M. (2001) Journal of Biological Chemistry. 276:47982-47992.
Zhou Q, Lee G, Brady J et al. (2012) American Journal of Human Genetics. 4:713-720



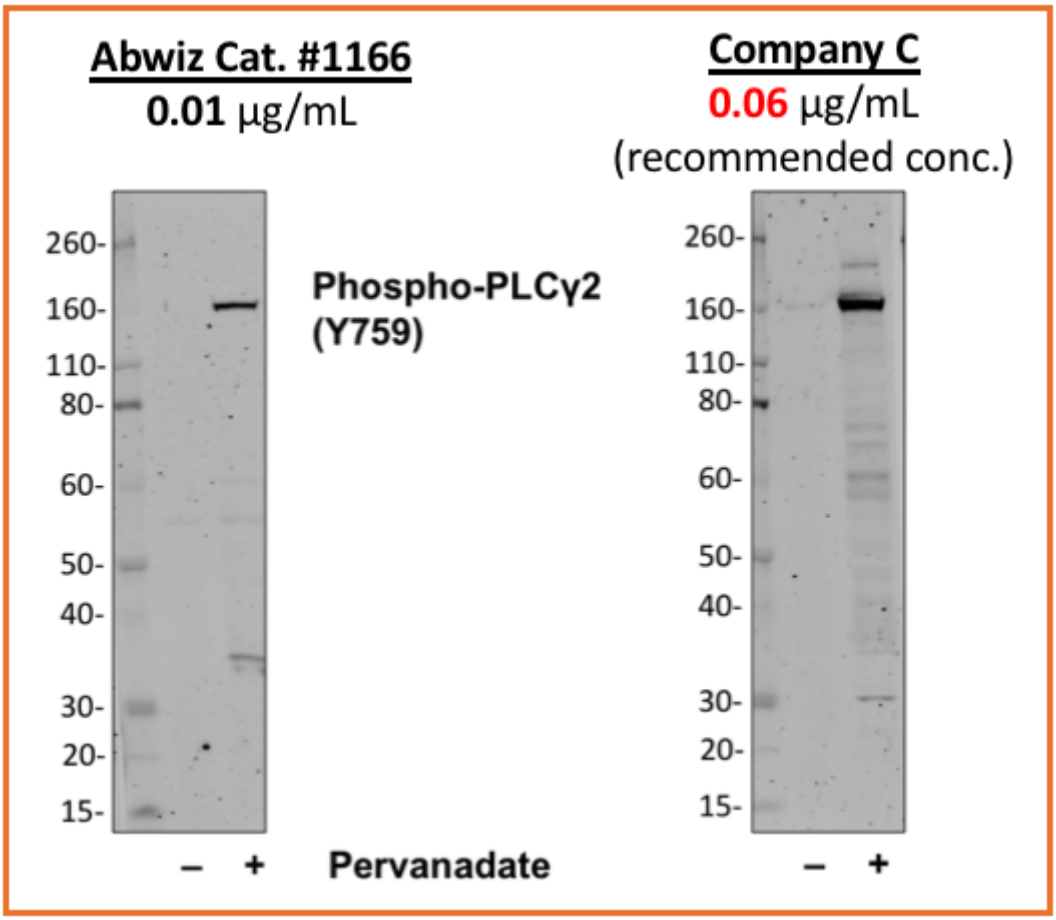
Western blot analysis of Ramos cell extract untreated or treated with pervanadate using Phospho-PLCγ2 (Tyr759) antibody PLCG2Y759-G3. Cat. #1166.



Flow cytometric analysis of NIH3T3 cells secondary antibody only negative control (blue) or 0.1 µg/mL of isotype control Cat. #2141 (orange) or treated with imatinib (red) or with pervanadate (green) using Phospho-PLCγ2 (Tyr759) antibody PLCG2Y759-G3 at 0.1 µg/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 ug/mL Phospho-PLCγ2 (Tyr759) antibody PLCG2Y759-G3. Cat. #1166.



Western blot analysis of Ramos cell extract untreated or treated with pervanadate using 0.01 µg/mL Phospho-PLCγ2 (Tyr759) antibody PLCg2Y759-G3 Cat. #1166 or Company C antibody at 0.06 µg/mL (manufacturer's recommended concentration) developed using the same exposure.