

# Phospho-PLC $\gamma$ 2 (Tyr759) (G3) rabbit mAb

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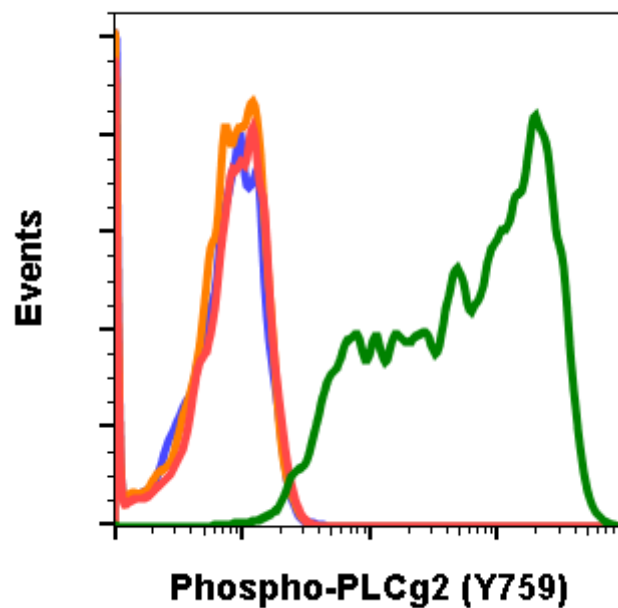
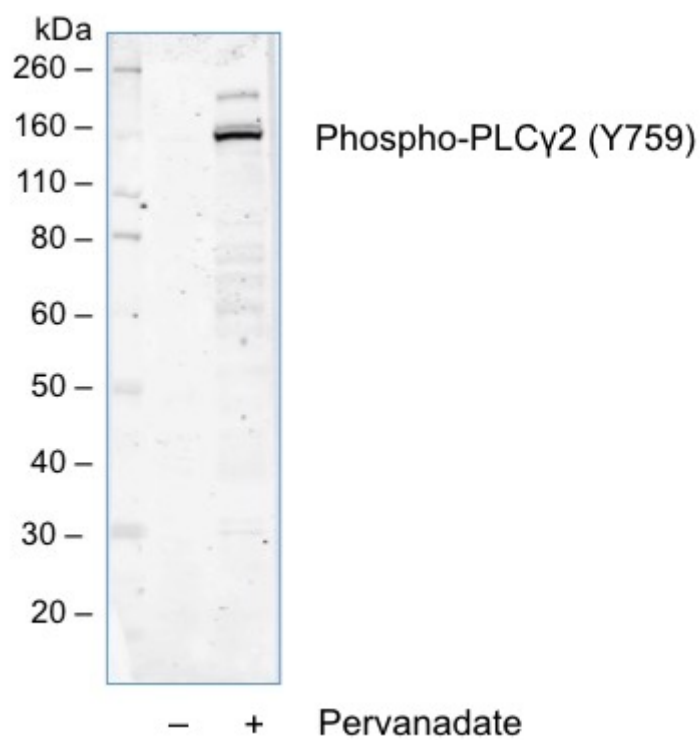
**Catalog:** #1166

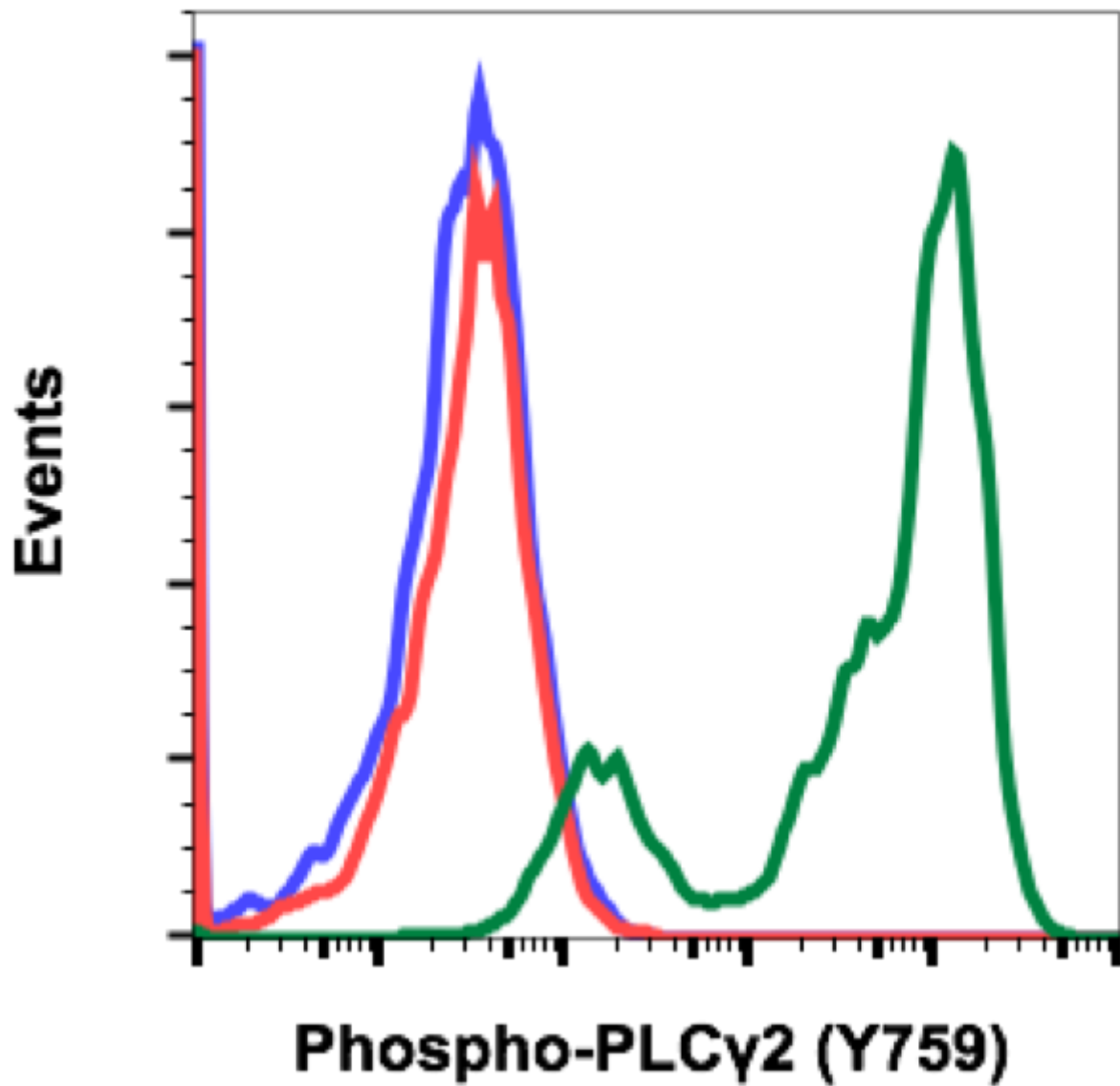
**Store at:** -20°C

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

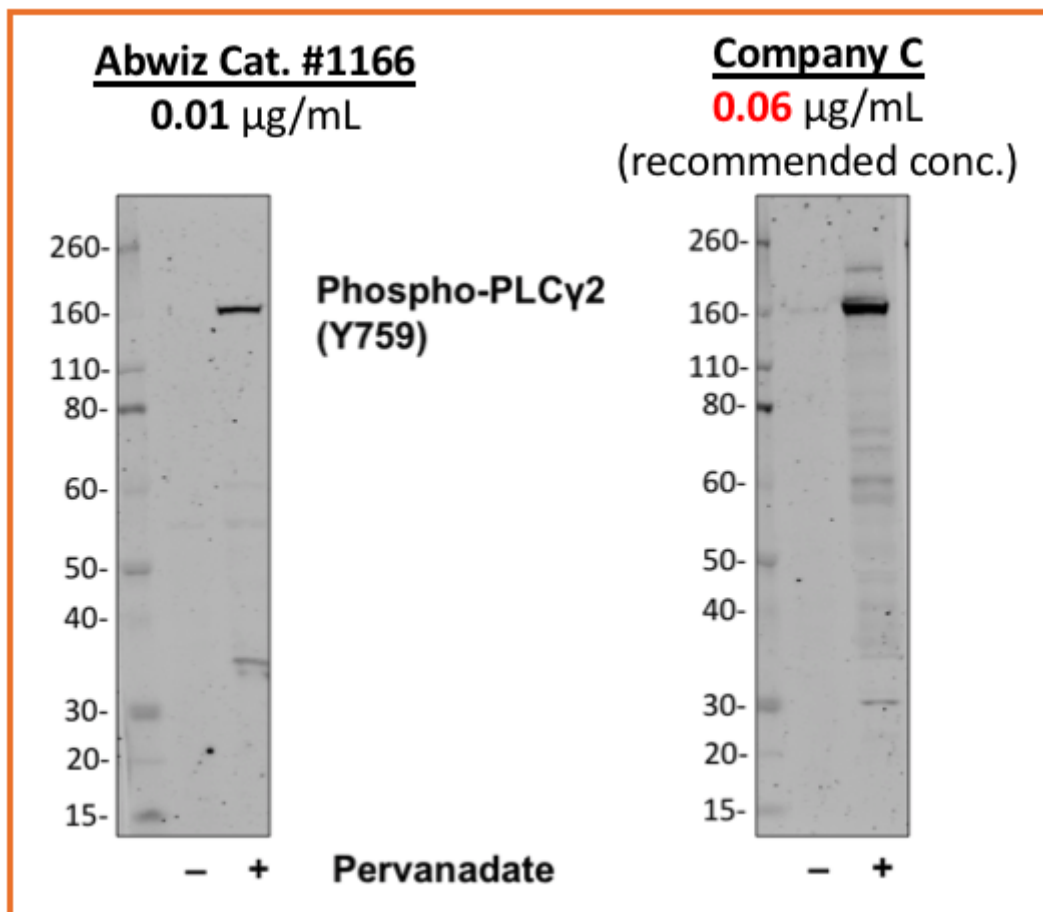
Applications	Detection	Clonality	Isotype
Flow Cytometry, WB	Anti-Rabbit IgG	Monoclonal	Rabbit IgGk

<b>Format:</b>	Unconjugated
<b>Cross Reactivity:</b>	Predicted to work with mouse, rat, and other homologues.
<b>Formulation:</b>	1X PBS, 0.02% NaN <sub>3</sub> , 50% Glycerol, 0.1% BSA
<b>Preparation:</b>	Protein A+G
<b>Reactivity:</b>	Human, Mouse
<b>Recommended Usage:</b>	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.
<b>Immunogen:</b>	A synthetic phospho-peptide corresponding to residues surrounding Tyr759 of human phospho PLC $\gamma$ 2.
<b>Description:</b>	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 $\gamma$ 1 is expressed ubiquitously, PLC $\gamma$ 2 is predominantly expressed in liver cells. PLC $\gamma$ 2 plays a dominant role in B-cell signaling. Btk directly phosphorylates PLC $\gamma$ 2, though the Syk kinase and BLNK adaptor protein are required. Both Tyr753 and Tyr759 have been identified as important phosphorylation sites for PLC $\gamma$ 2 activation in B-cells. PLC $\gamma$ 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 $\gamma$ 2 activity.
<b>References:</b>	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 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 PLCγ2Y759-G3 Cat. #1166 or Company C antibody at 0.06 µg/mL (manufacturer's recommended concentration) developed using the same exposure.