

12-4025: Phospho-PLC γ 2 (Tyr759) (Clone: G3) rabbit mAb

Clonality :	Monoclonal
Clone Name :	PLCG2Y759-G3
Application :	FACS,WB
Reactivity :	Human, Mouse
Conjugate :	Unconjugated
Format :	Purified
Alternative Name :	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase gamma-2, Phosphoinositide phospholipase C-gamma-2, PLC-IV, PLC-gamma-2, PLCG2
Isotype :	Rabbit IgG1k
Immunogen Information :	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.

Product Info

Amount :	20 μ l / 200 μ l
Content :	1X PBS, 0.02% NaN ₃ , 50% Glycerol, 0.1% BSA
Storage condition :	Store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

1 μ g/mL - 0.001 μ g/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.(0.5mg/ml, more than 200 western blots)

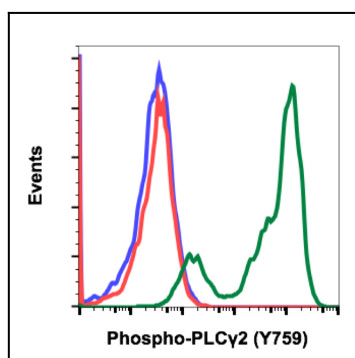


Fig-1: Flow cytometric analysis of Ramos cells secondary antibody only negative control (blue) or untreated (red) or treated with pervanadate (green) using 0.01 μ g/mL Phospho-PLC γ 2 (Tyr759) antibody PLCG2Y759-G3. .

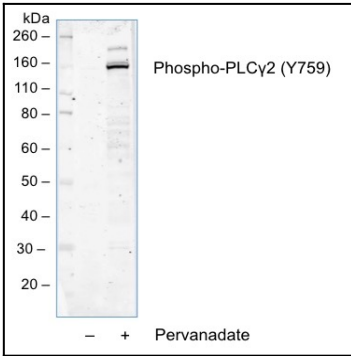


Fig 2 : Western blot analysis of Ramos cell extract untreated or treated with pervanadate using Phospho-PLCg2 (Tyr759) antibody PLCG2Y759-G3.

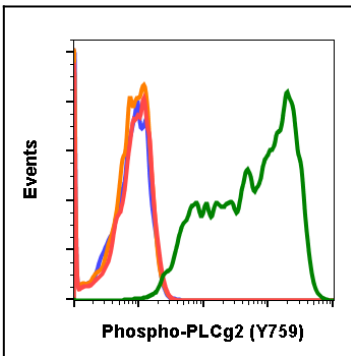


Fig-3: Flow cytometric analysis of NIH3T3 cells secondary antibody only negative control (blue) or 0.1 µg/mL of isotype control (orange) or treated with imatinib (red) or with pervanadate (green) using Phospho-PLCg2 (Tyr759) antibody PLCG2Y759-G3 at 0.1 µg/mL.

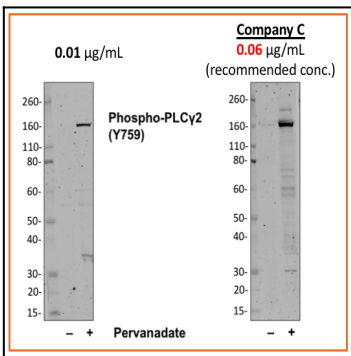


Fig-4: Western blot analysis of Ramos cell extract untreated or treated with pervanadate using 0.01 µg/mL Phospho-PLCg2 (Tyr759) antibody PLCg2Y759-G3 or Company C antibody at 0.06 µg/mL (manufacturer's recommended concentration) developed using the same exposure.