9853 Pacific Heights Blvd.
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12-4025: Phospho-PLCg2 (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 PLCg2.

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 PLCg1 is expressed ubiquitously, PLCg2 is predominantly expressed in liver cells. PLCg2 plays a dominant role in B-cell signaling. Btk directly phosphorylates PLCg2, though the Syk kinase and BLNK adaptor protein are required. Both Tyr753 and Tyr759 have been identified as important phosphorylation sites for PLCg2 activation in B-cells. PLCg2 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 PLCg2 activity.

Product Info

Amount :	20 µl / 200 µl
Content :	1X PBS, 0.02% NaN3, 50% Glycerol, 0.1% BSA
Storage condition :	Store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

1Ã‚Âµg/mL - 0.001Ã‚Âµg/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)

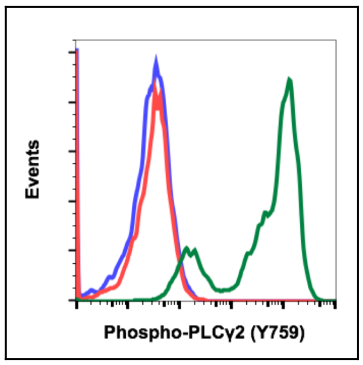

Fig-1: Flow cytometric analysis of Ramos cells secondary antibody only negative control (blue) or untreated (red) or treated with pervanadate (green) using 0.01 µg/mL Phospho-PLCg2 (Tyr759) antibody PLCG2Y759-G3. .

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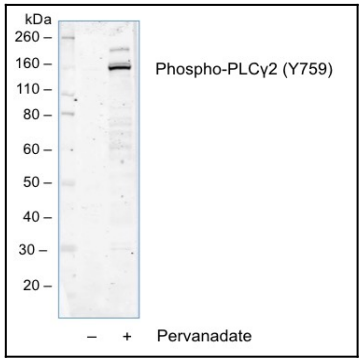

Fig 2 : Western blot analysis of Ramos cell extract untreated or treated with pervanadate using Phospho-PLCg2 (Tyr759) antibody PLCG2Y759-G3.

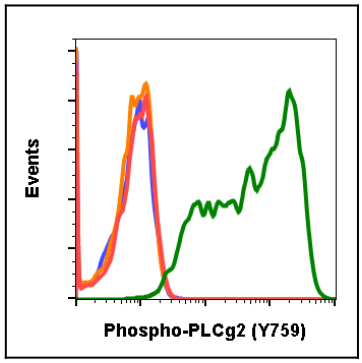

Fig-3: Flow cytometric analysis of NIH3T3 cells secondary antibody only negative control (blue) or 0.1 µg/mL of isotype control (orange) or treated with imatinib (red) or with pervanadate (green) using Phospho-PLCg2 (Tyr759) antibody PLCG2Y759-G3 at 0.1 µg/mL.

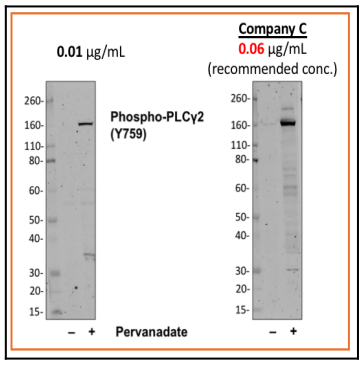

Fig-4: Western blot analysis of Ramos cell extract untreated or treated with pervanadate using 0.01 µg/mL Phospho-PLCg2 (Tyr759) antibody PLCg2Y759-G3 or Company C antibody at 0.06 µg/mL (manufacturer's recommended concentration) developed using the same exposure.