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12-4026: Phospho-PLCg2 (Tyr759) (Clone: G3) rabbit mAb PE conjugate

Clonality :	Monoclonal
Clone Name :	PLCG2Y759-G3
Application :	FACS
Reactivity :	Human, Mouse
Conjugate :	PE
Format :	Conjugated
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 :	10 Tests / 100 Tests
Content :	1X PBS, 0.09% NaN3, 0.2% BSA
Storage condition :	Store at 2-8°C. Avoid repeated freeze and thaw cycles.

Application Note

For flow cytometric staining, the suggested use of this reagent is 5 ÂµL per million cells or 5 ÂµL per 100 ÂµL of staining volume. It is recommended that the reagent be titrated for optimal performance for each application.

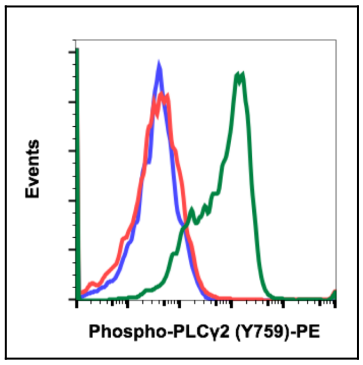

Fig-1: Flow cytometric analysis of Ramos cells unstained treated with imatinib (blue) or stained and treated with imatinib (red) or treated with pervanadate (green) using phospho-PLCg2 (Tyr759) antibody PLCG2Y759-G3 PE conjugate.