

## 12-4057: Phospho-PI3 Kinase p85 (Tyr458)/p55 (Tyr199) (Clone: 1A11) rabbit mAb

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	PI3KY458-1A11
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human, Mouse
<b>Conjugate :</b>	Unconjugated
<b>Format :</b>	Purified
<b>Alternative Name :</b>	Phosphatidylinositol 3-kinase regulatory subunit alpha, PIK3R1, GRB1, Phosphatidylinositol 3-kinase regulatory subunit beta, PIK3R2, Phosphatidylinositol 3-kinase regulatory subunit gamma, PIK3R3, p55PIK
<b>Isotype :</b>	Rabbit IgG1k
<b>Immunogen Information :</b>	A synthetic phospho-peptide corresponding to residues surrounding Tyr458 of human phospho PI3K p85

### Description

Phosphoinositidine 3-kinase (PI3K) targets phosphoinositide lipids for phosphorylation at the D-3 position to serve as a second messenger molecule to activate signaling pathways in response to extracellular stimuli. Akt/protein kinase B (PKB) is a major downstream target of PI3K. The multiple forms of PI3K have different specificities and different affinities for various phosphatidylinositol forms. The PH domains of downstream proteins in these pathways bind to these secondary messengers, causing altered cellular distribution and subsequent kinase activation. The PI3K/Akt pathway is altered in a large proportion of human cancers, as this pathway regulates cellular survival, cell cycle progression, and cell growth.

### Product Info

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

### Application Note

1  $\mu$ g/mL - 0.001  $\mu$ 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)

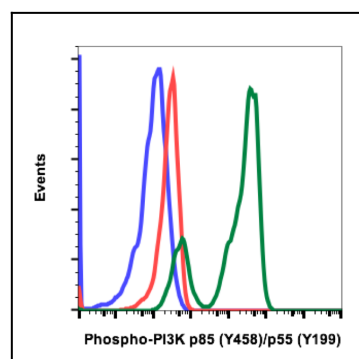


Fig-1: Flow cytometric analysis of Ramos cells secondary antibody only negative control (blue) or untreated (red) or treated with pervanadate (green) using Phospho-PI3 Kinase p85 (Tyr458)/p55 (Tyr199) antibody PI3KY458-1A11.

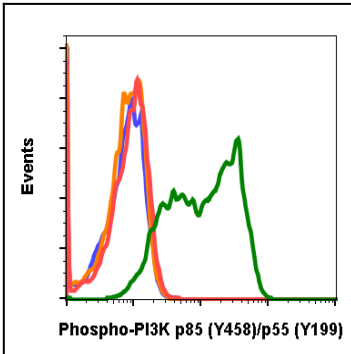


Fig 2 : Flow cytometric analysis of NIH3T3 cells secondary antibody only negative control (blue) or 0.1 µg/mL of isotype control (Cat# 12-4086) (orange) or treated with imatinib (red) or with pervanadate (green) using Phospho-PI3 Kinase p85 (Tyr458)/p55 (Tyr199) antibody PI3KY458-1A11 at 0.1 µg/mL.

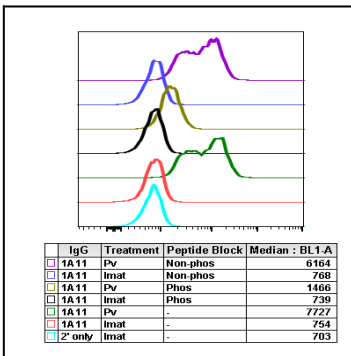


Fig-3: Peptide blocking flow cytometric analysis of NIH3T3 cells secondary antibody only negative control (light blue) or treated with imatinib (red) or with pervanadate (green) or imatinib and blocked with phospho-peptide (black) or pervanadate and blocked with phospho peptide (gold) or imatinib and blocked with non-phospho peptide (dark blue) or pervanadate and blocked with non-phospho peptide (purple) using Phospho-PI3 Kinase p85 (Tyr458)/p55 (Tyr199) antibody PI3KY458-1A11 at 0.1 µg/mL.