

Product Data Sheet: Purified anti-phospho-PI3 Kinase p85 (Tyr458)/p55 (Tyr199) rabbit mAb

Catalog Number:	2066
Clone:	PI3KY458-1A11
Isotype:	Rabbit IgG1κ
Immunogen:	A synthetic phospho-peptide corresponding to residues surrounding Tyr458 of human phospho PI3K p85
Reactivity:	Mouse, Human
Cross Reactivity:	Predicted to work with mouse, rat, and other homologues.
Preparation:	Protein A+G
Formulation:	1X PBS, 0.02% NaN ₃ , 50% Glycerol, 0.1% BSA
Applications:	Flow Cytometry
Recommended Usage:	1.0 - 0.1 µg/ml. Optimum concentration should be determined by the user.
Product Configuration:	200 ul (0.5mg/ml)
Detection:	Anti-Rabbit IgG

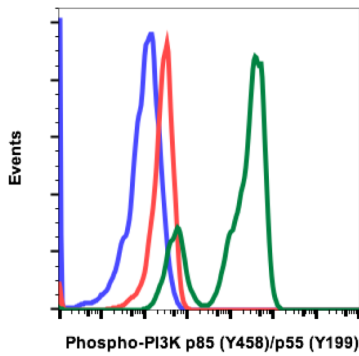
Description

Phosphoinositide 3-kinase (PI3K, phospho PI3K) Binds to activated (phosphorylated) protein-Tyr kinases, through its SH2 domain, and acts as an adapter, mediating the association of the p110 catalytic unit to the plasma membrane. Phospho PI3K is necessary for the insulin-stimulated increase in glucose uptake and glycogen synthesis in insulin-sensitive tissues. During insulin stimulation, it also binds to IRS-1. Growth factors and hormones trigger this phosphorylation event, which in turn coordinates cell growth, cell cycle entry, cell migration, and cell survival.

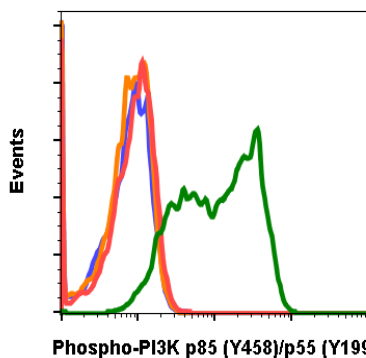
References

1. Cantley, L.C. (2002) Science 296, 1655-7.
2. Simpson, L. and Parsons, R. (2001) Exp Cell Res 264, 29-41.
3. Neri, L.M. et al. (2002) Biochim Biophys Acta 1584, 73-80.

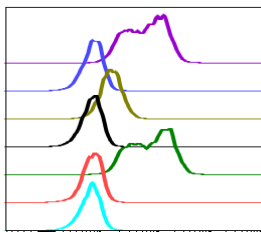
Purified anti-phospho-PI3 Kinase p85 (Tyr458)/p55 (Tyr199) rabbit mAb Images



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. Cat.#2066.



Flow cytometric analysis of NIH3T3 cells, secondary antibody only negative control (blue) or 0.1 µg/mL of isotype control Cat. #2141 (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. Cat #2066.



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. Cat #2066.

IgG	Treatment	Peptide Block	Median : BL1-A
1A11	Pv	Non-phos	6164
1A11	Imat	Non-phos	768
1A11	Pv	Phos	1466
1A11	Imat	Phos	739
1A11	Pv	-	722
1A11	Imat	-	754
2' only	Imat	-	703