

PI3 Kinase, p85 (C-terminal region)

Cat. # PM2531

Host Mouse Monoclonal IgG2a

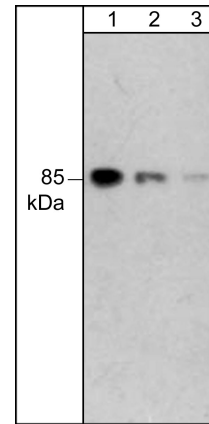
Size 100 µl

Background:

Phosphoinositide 3-kinase (PI3K) phosphorylates phosphatidylinositol (PI), PI-4-phosphate and PI-4,5-bisphosphate to catalyze the production of PI-3,4,5-triphosphate. Growth factors and hormones activate PI3K to coordinate various cellular events, such as cell growth, cell cycle entry, cell migration and cell survival. This PI3K activation is reversed by PTEN. In cancers caused by the loss of PTEN activity, PI3K is constitutively active and promotes cell proliferation. PI3Ks are composed of a catalytic subunit and a regulatory subunit. Various isoforms of the catalytic subunit (p110 α , p110 β and p110 δ) associate with regulatory subunits (p85 α and p85 β) with the exception of p110 γ which interacts with a unique p101 regulatory subunit.

References

Cantley, L.C. (2002) Science 296:1655.
Stoyanov, B. et al. (1995) Science 269:690.



Western blot image of human A431 cells. The blots were probed with mouse monoclonal anti-PI3 Kinase, p85 (C-terminal region) at 1:1000 (lane 1), 1:2000 (lane 2), and 1:4000 (lanes 3).

Immunogen:

A recombinant protein corresponding to amino acids in the C-terminal region of human PI3 Kinase α subunit. This region is homologous to similar regions in rat and mouse PI3 Kinase α subunit.

Applications:

WB 1:1000
ELISA 1:2000
ICC 1:100

End user should determine optimal dilution for their particular applications and experiments. Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1 hour at room temperature.

Related Products:

EM1991 EGFR (Tyr-1101), phospho-specific Mouse Monoclonal
EP1931 EGFR (Ser-1142), phospho-specific Rabbit Polyclonal
EP1911 EGFR (Ser-967), phospho-specific Rabbit Polyclonal
SP1331 ShcA Rabbit Polyclonal
PP1491 PLC γ 1 (Tyr-775), phospho-specific Rabbit Polyclonal
PM1561 PLC γ 1 (N-terminal Region) Mouse Monoclonal

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

Buffer and Storage:

Mouse monoclonal antibody purified with protein A chromatography is supplied in 100µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C. Do not aliquot. Stable for 1 year.

Specificity:

This antibody detects an 85 kDa* band corresponding to the p85 subunit of PI3 Kinase in western blots of human A431 and Jurkat cells.

*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

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Rev 7/22/2008