
Anti-PI3 Kinase p85

Cat #: HM1285
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Phosphatidylinositol 3-kinase (PI3-kinase) phosphorylates at the D-3 position of the inositol ring of PI, PI-4- phosphate and PI-4,5-biphosphate (PI-4,5-P2) to produce their respective PI3-phosphorylated derivatives. The enzyme comprises a 110 kD catalytic subunit (p110) and a regulatory subunit of 85 kDa (p85). The p85 subunit acts as an adapter, coupling p110 to activated protein tyrosine kinase. p85 subunit contains two SH2 domains and an SH3 domain. It associates with and serves as a substrate for activated growth factor receptor tyrosine kinases. Two forms of p85 have been described (p85 α and p85 β). Both isoforms bind to activated receptors and serve as tyrosine kinase substrates.

SPECIFICITY

This antibody specifically reacts with all p85 α and p85 β subunits of human, mouse and rat origin.

The antibody can be used in Western blotting, immunoprecipitation and immunohistochemistry.

IMMUNOGEN

A recombinant protein mapping at the amino terminal SH2 domain of the p85 α subunit of human PI3 kinase.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

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3. Hiles, I.D., et al. 1992. Phosphatidylinositol 3-kinase: structure and expression of the 110 kDa catalytic subunit. *Cell*. 70: 419-429.
4. Hu, P., et al. 1993. Cloning of a novel, ubiquitously expressed human phosphatidylinositol 3-kinase and identification of its binding site on p85. *Mol. Cell. Biol.* 13: 7677-7688.
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