

Product Datasheet

PI3 Kinase p110 beta Antibody

Catalog No: CY5620

Reactivity: Human

Isotype: Rabbit IgG

Applications: WB IP FC



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Information

UniProt ID: P42338

All Names: PIK3CB; DKFZp779K1237; MGC133043; PI3K; PI3KCB; PI3Kbeta; PIK3C1; p110-BETA;

Form: Liquid

Storage instructions: Store at +4° C short term. Store at -20° C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

Molecular Wt.: 110 kDa

Application

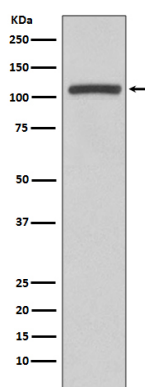
WB: 1:500~1:2000

IP: 1:50

FC: 1:50

Background

Phosphoinositide 3-kinase (PI3K) catalyzes the production of phosphatidylinositol-3,4,5-triphosphate by phosphorylating phosphatidylinositol (PI), phosphatidylinositol-4-phosphate (PIP) and phosphatidylinositol-4,5-bisphosphate (PIP₂). Growth factors and hormones trigger this phosphorylation event, which in turn coordinates cell growth, cell cycle entry, cell migration, and cell survival. PTEN reverses this process, and the PI3K signaling pathway is constitutively activated in human cancers that have loss of function of PTEN. PI3Ks are composed of a catalytic subunit (p110) and a regulatory subunit. Various isoforms of the catalytic subunit (p110 α , p110 β , p110 γ , and p110 δ) have been isolated, and the regulatory subunits that associate with p110 α , p110 β , and p110 δ are p85 α and p85 β . In contrast, p110 γ associates with a p101 regulatory subunit that is unrelated to p85. Furthermore, p110 γ is activated by $\beta\gamma$ subunits of heterotrimeric G proteins. p110 β is widely distributed in tissue and plays an essential role in early embryonic development. p110 β stimulates cell proliferation, invasive cell growth, and expression is increased in a number of tumors including glioblastomas.



Western blot analysis of PI3 Kinase p110 beta expression in Jurkat cell lysate.

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