E90982

PIK3CBPolyclonal Antibody

Catalog Number: E90982
Amount: 100ul
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 (1). PTEN reverses this process, and the PI3K signaling pathway is constitutively activated in human cancers that have loss of function of PTEN (2). PI3Ks are composed of a catalytic subunit (p110) and a regulatory subunit. Various isoforms of the catalytic subunit (p110α, p110β, p110γ, and p110δ) have been isolated, and the regulatory subunits that associate with p110α, p110β, and p110δ are p85α and p85β (3). In contrast, p110γ associates with a p101 regulatory subunit that is unrelated to p85. Furthermore, p110γ is activated by βγ subunits of heterotrimeric G proteins (4). p110ß is widely distributed in tissue and plays an essential role in early embryonic development (5). p110ß stimulates cell proliferation, invasive cell growth, and expression is increased in a number of tumors including glioblastomas (6-8).
Species: Rabbit
Isotype: IgG
Storage/Stability: Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Synonyms: PIK3CB;DKFZp779K1237;MGC133043;PI3K;PI3KCB;PI3Kbeta;PIK3C1;p110-BETA ;
Immunogen: Recombinant proteinof human PIK3CB
Purification: Affinity purification
Reactivity: H M R
Applications: WB IHC
Molecular Weight: 123kDa
Swiss-Prot No. : P42338
Gene ID: 5291
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. 4. Stoyanov, B. et al. (1995) Science 269, 690-3. 5. Okkenhaug, K. and Vanhaesebroeck, B. (2003) Nat Rev Immunol 3, 317-30. 6. Czauderna, F. et al. (2003) Nucleic Acids Res 31, 670-82. 7. Bénistant, C. et al. (2000) Oncogene 19, 5083-90. 8. Knobbe, C.B. and Reifenberger, G. (2003) Brain Pathol 13, 507-18.

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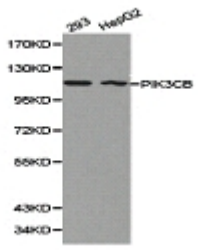
WB 1:500 - 1:2000

IHC 1:50- 1:200



Western blot analysis of 293 cell and HepG2cell lysate using PIK3CB antibody.

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