



PIK3CG Polyclonal Antibody

E90266

Catalog Number: E90266**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 (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 (3). 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 (4).

Species: Rabbit**Isotype:** IgG

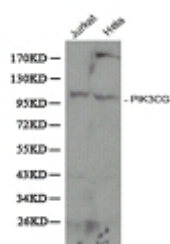
Storage/Stability: Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonyms: PI3K; PIK3; PI3CG; PI3Kgamma**Immunogen:** Recombinant protein of human PIK3CG**Purification:** Affinity purification**Reactivity:** H M R**Applications:** WB**Molecular Weight:** 126kDa**Swiss-Prot No. :** P48736**Gene ID:** 5294

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.

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WB 1:500 - 1:2000



Western blot analysis of Jurkat and Hela cell lines,
using PIK3CG antibody.