

PIK3CG

Reactivity:Human Mouse Rat

Tested applications:WB IHC

Recommended Dilution:WB 1:500 - 1:2000 IHC 1:50 - 1:100

Calculated MW:126kDa

Observed MW:Refer to Figures

Immunogen:

Recombinant protein of human PIK3CG

Storage Buffer:

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

Concentration:

bq

Synonym:

PI3K; PIK3; PI3CG; PI3Kgamma

Catalog #:A0266

Antibody Type:

Polyclonal Antibody

Species:Rabbit

Gene ID:5294

Isotype:IgG

Swiss Prot:P48736

Purity:Affinity purification

For research use only.

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, p110, p110, and p110) have been isolated, and the regulatory subunits that associate with p110, p110, and p110 are p85 and p85 (3). In contrast, p110 associates with a p101 regulatory subunit that is unrelated to p85. Furthermore, p110 is activated by subunits of heterotrimeric G proteins (4).

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