www.neobiolab.com
info@neobiolab.com
888.754.5670, +1 617.500.7103 United States
0800.088.5164, +44 020.8123.1558 United Kingdom

PIK3R1

Reactivity: Human Rat

Tested applications:WB IHC

Recommended Dilution:WB 1:500 - 1:2000 IHC 1:50 - 1:200

Calculated MW:85kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human PIK3R1

Storage Buffer:

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

Concentration:

opqr

Synonym:

PIK3R1;GRB1;p85;p85-ALPHA

Catalog #:A0054

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:5295

Isotype: IgG

Swiss Prot:P27986

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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