PI3K p101 polyclonal antibody

Catalog: BS62421 Host: Rabbit Reactivity: Human,Rat,Mouse

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 research studies have shown that 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 (p110α, p110β, p110γ, and p110δ) have been isolated, and the regulatory subunits that associate with p110α, p110β, and p110δ are p85α and p85β. 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. The p101 regulatory subunit binds to Gβγ, released from heterotrimeric G proteins, and recruits bound p110γ catalytic subunit to the plasma membrane, which is required for GPCR-induced PI3Kγ activity.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.4.

Molecular Weight:

~ 101 kDa

Swiss-Prot:

Q8WYR1

Purification&Purity:

The protein was purified from E.coli and the purity is > 95% (by SDS-PAGE).

Applications:

WB:1:500~1:1000 IHC:1:50~1:200

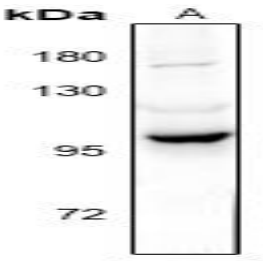
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

PI3K p101 polyclonal antibody detects endogenous levels of PI3K p101 protein.

DATA:



Western blot (WB) analysis of PI3K p101 polyclonal antibody at 1:500 dilution

LaneA:The brain tissue lysate of Rat

Note:

For research use only, not for use in diagnostic procedure.

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