

## PI3K p110 $\alpha$ /PIK3CA polyclonal antibody

Catalog: BS6052

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

The enzyme phosphatidylinositol 3 kinase (PI3 kinase) is a lipid kinase that generates phosphatidylinositol 3, 4, 5-triphosphate in response to receptor activation in many signal transduction pathways. Class IA PI3Ks exist as a heterodimer of a catalytic 110 kDa (p110) and a regulatory p85 subunit (e.g. p85 alpha). p85 alpha is an adaptor molecule that regulates the activity of the catalytic p110 subunit by binding to phosphorylated receptor tyrosine kinases (RTKs) through its SH2 domain and mediating the interaction between p110 and the plasma membrane. p85 alpha is necessary for insulin-stimulated increase in glucose uptake and glycogen synthesis in insulin-sensitive tissues.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~ 110 kDa

### Swiss-Prot:

P42336

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB, 1:500 - 1:2000 | IHC-P, 1:50 - 1:100 | IF/ICC, 1:50 - 1:100

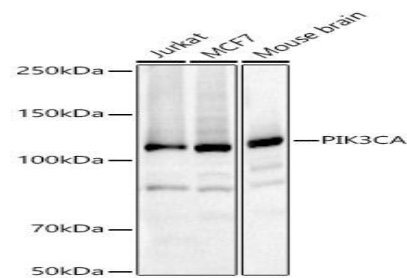
### Storage&Stability:

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

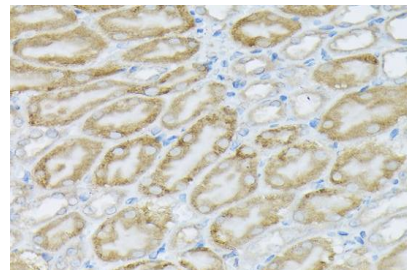
### Specificity:

PI3K p110 $\alpha$ /PIK3CA polyclonal antibody detects endogenous levels of PI3K p110 $\alpha$ /PIK3CA protein.

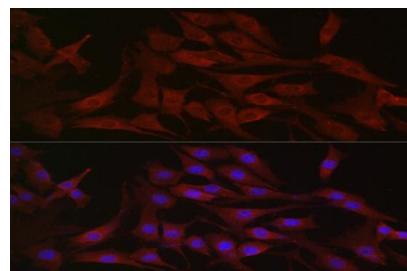
### DATA:



Western blot analysis of various lysates, using PI3K p110 $\alpha$ /PIK3CA pAb at 1:5000 dilution.



Immunohistochemistry analysis of paraffin-embedded mouse kidney using PI3K p110 $\alpha$ /PIK3CA pAb at dilution of 1:100 (40x lens).



Immunofluorescence analysis of NIH/3T3 cells using PI3K p110 $\alpha$ /PIK3CA pAb at dilution of 1:100 (40x lens).

### Note:

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

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