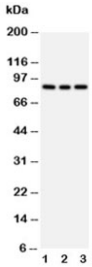
PI3K Antibody (p85 beta) (R30765)

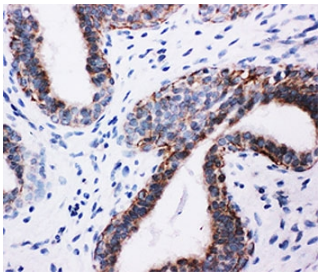
Catalog No.	Formulation	Size
R30765	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

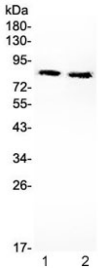
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	O00459
Applications	Western Blot : 0.5-1ug/ml IHC (FFPE) : 0.5-1ug/ml
Limitations	This PI3K antibody is available for research use only.



Western blot testing of PI3K antibody and Lane 1: rat testis; 2: 293T; 3: HeLa cell lysate. Predicted molecular weight ~85 kDa.



IHC-P: PI3K antibody testing of human breast cancer tissue. HIER: steamed with pH6 citrate buffer.



Western blot testing of mouse 1) liver and 2) brain lysate with PI3K antibody. Predicted molecular weight ~85 kDa.

Description

Phosphatidylinositol 3-kinase regulatory subunit 2, also called p85-Beta, PIK3R2 and PIK3, is an enzyme that in humans is encoded by the PIK3R2 gene. The NS1 protein from various influenza strains bind p85-beta, but not p85-alpha. Binding of p85-beta and activation of PI3K required tyr89 of NS1, and mutant viruses expressing NS1 with a tyr89-to-phe substitution grew more slowly in cell culture than wildtype viruses. Using mouse embryonic fibroblasts, Park et al. showed that, in addition to regulating PI3K function, p85-alpha/beta regulated the function of Xbp1s, a transcription factor that orchestrates the unfolded protein response (UPR) following endoplasmic reticulum (ER) stress. Overexpression of the protein in livers of ob/ob mice increased glucose tolerance and reduced blood glucose concentrations.

Application Notes

The stated application concentrations are suggested starting points. Titration of the PI3K antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 447-461 (KVYHQQYQDKSREYD-beta specific) was used as the immunogen for this PI3K antibody (100% human, mouse and rat homology).

Storage

After reconstitution, the PI3K antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com