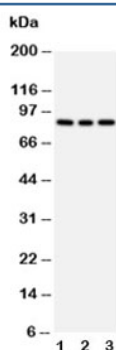


## PI3K Antibody (p85 beta) (R30765)

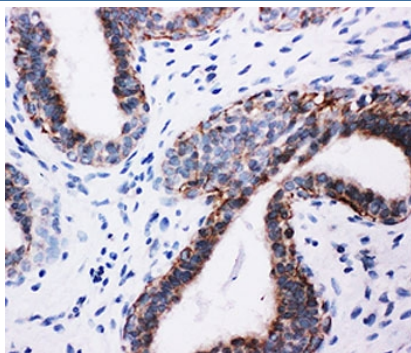
Catalog No.	Formulation	Size
R30765	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

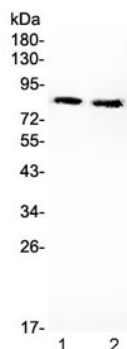
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity
<b>Buffer</b>	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
<b>UniProt</b>	O00459
<b>Applications</b>	Western blot : 0.5-1ug/ml IHC (FFPE) : 0.5-1ug/ml
<b>Limitations</b>	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 (KVYHQYQDKSREYD-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 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.