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Datasheet for ABIN3029749  
**anti-PIK3R1 antibody (AA 447-461)**

3 Images

Overview

Quantity:	100 µg
Target:	PIK3R1 (PI3K p85a)
Binding Specificity:	AA 447-461
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIK3R1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Amino acids 447-461 (KVYHQYQDKSREYD-beta specific) was used as the immunogen for this PI3K antibody (100% human, mouse and rat homology).
Isotype:	IgG
Purification:	Antigen affinity

Target Details

Target:	PIK3R1 (PI3K p85a)
Alternative Name:	PI3K ( <a href="#">PI3K p85a Products</a> )
Background:	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

## Target Details

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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.

UniProt: [O00459](#)

Pathways: [TCR Signaling](#), [Response to Growth Hormone Stimulus](#), [Regulation of Muscle Cell Differentiation](#), [Skeletal Muscle Fiber Development](#), [Hepatitis C](#), [Protein targeting to Nucleus](#), [VEGF Signaling](#), [BCR Signaling](#), [Warburg Effect](#)

## Application Details

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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.\. Western blot: 0.5-1 µg/mL, IHC (Paraffin): 0.5-1 µg/mL

Restrictions: For Research Use only

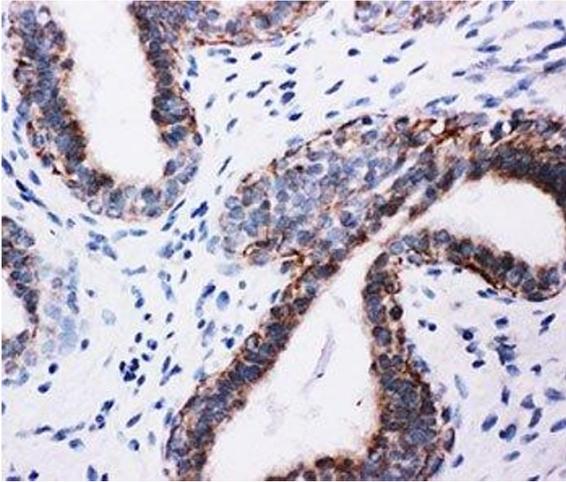
## Handling

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Buffer: 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water

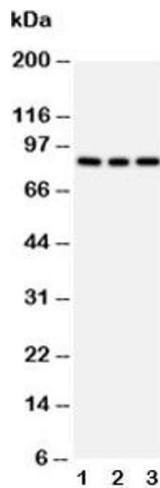
Storage: -20 °C

Storage Comment: 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.



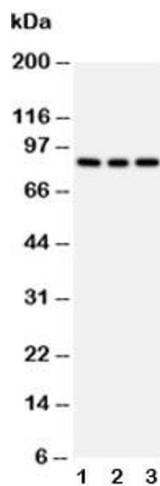
### Immunohistochemistry

**Image 1.** IHC-P: PI3K antibody testing of human breast cancer tissue



### Western Blotting

**Image 2.** Western blot testing of PI3K antibody and Lane 1: rat testis; 2: 293T; 3: HeLa cell lysate



### Western Blotting

**Image 3.** Western blot testing of PI3K antibody and Lane 1: rat testis