10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# PIK3R3 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8025a

## Product Information

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| **Application** | IHC-P, WB, IF, E |
| **Primary Accession** | Q92569 |
| **Reactivity** | Human, Rat, Mouse |
| **Predicted** | Bovine, Canine, Rabbit |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Calculated MW** | 54448 |
| **Antigen Region** | 316-346 |

## Additional Information

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| **Gene ID** | 8503 |
| **Other Names** | Phosphatidylinositol 3-kinase regulatory subunit gamma, PI3-kinase regulatory subunit gamma, PI3K regulatory subunit gamma, PtdIns-3-kinase regulatory subunit gamma, Phosphatidylinositol 3-kinase 55 kDa regulatory subunit gamma, PI3-kinase subunit p55-gamma, PtdIns-3-kinase regulatory subunit p55-gamma, p55PIK, PIK3R3 |
| **Target/Specificity** | This PIK3R3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 316-346 amino acids from the C-terminal region of human PIK3R3. |
| **Dilution** | IHC-P~~1:100~500 WB~~1:1000 IF~~1:100 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | PIK3R3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | PIK3R3 |

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| **Function** | Binds to activated (phosphorylated) protein-tyrosine kinases through its SH2 domain and regulates their kinase activity. During insulin stimulation, it also binds to IRS-1. |
| **Tissue Location** | Highest levels in brain and testis. Lower levels in adipose tissue, kidney, heart, lung and skeletal muscle |

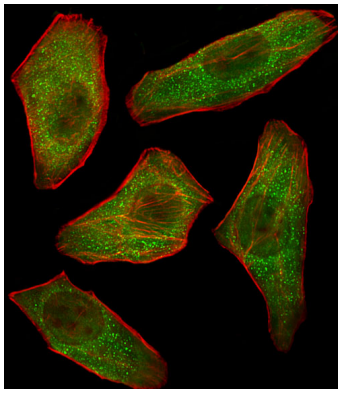
## Background

PIK3R3 binds to activated (phosphorylated) protein-tyrosine kinases through its SH2 domain and regulates their kinase activity. During insulin stimulation, it also binds to IRS-1. It is a component of a heterodimer of p110 (catalytic) and p55 (regulatory) subunits. The protein is expressed at highest levels in brain and testis. Lower levels are detected in adipose tissue, kidney, heart, lung and skeletal muscle. The protein contains 2 SH2 domains.

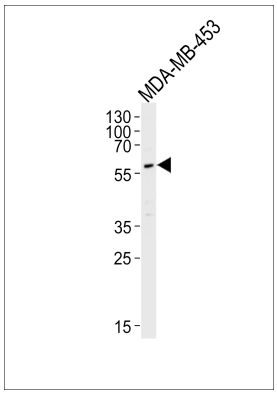
## References

Dey, B.R., et al., Gene 209 (1-2), 175-183 (1998).

## Images

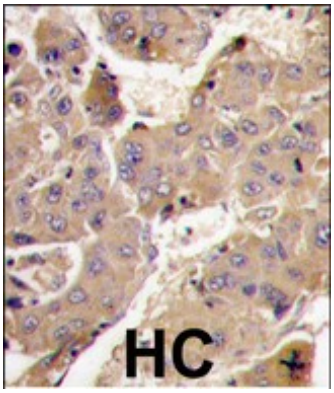


Fluorescent image of U251 cells stained with PIK3R3 Antibody(C-term) (Cat#AP8025A). AP8025A was diluted at 1:100 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit lgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).




Western blot analysis of lysate from MDA-MB-453 cell line, using PI3KR3 Antibody (G331)(Cat. #AP8025a. RB1719 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.

Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with PIK3R3 antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.




## Citations

- Identification of novel posttranscriptional targets of the BCR/ABL oncoprotein by ribonomics: requirement of E2F3 for BCR/ABL leukemogenesis.
- Integrative genomic analysis of phosphatidylinositol 3'-kinase family identifies PIK3R3 as a potential therapeutic target in epithelial ovarian cancer.
- Overexpression of X-Box Binding Protein 1 (XBP1) Correlates to Poor Prognosis and Up-Regulation of PI3K/mTOR in Human Osteosarcoma.
- miR□1273g□3p promotes proliferation, migration and invasion of LoVo cells via cannabinoid receptor 1 through activation of ERBB4/PIK3R3/mTOR/S6K2 signaling pathway.
- Mir-1287 suppresses the proliferation, invasion, and migration in hepatocellular carcinoma by targeting PIK3R3.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.