

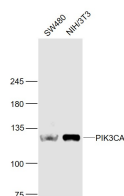
**bs-2067R****[ Primary Antibody ]****BioSS**  
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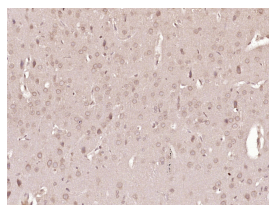
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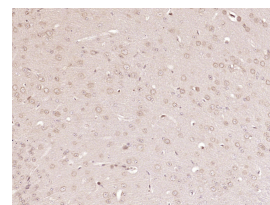
400-901-9800

**PIK3CA Rabbit pAb****— DATASHEET —****Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 5290**SWISS:** P42336**Target:** PIK3CA**Immunogen:** KLH conjugated synthetic peptide derived from human PI3KCA: 961-1068/1068.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.  
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.**Background:** PI3-Kinases (PI3-Ks) are a family of lipid kinases that are implicated in signal transduction. Phosphatidylinositol 3-kinase is composed of an 85 kDa regulatory subunit and a 110 kDa catalytic subunit. The p85 subunit localizes PI3-K activity to the plasma membrane while the p110 subunit contains the catalytic domain of PI3-K which uses ATP to phosphorylate PtdIns, PtdIns4P and PtdInsP2. Four isoforms of p110 have been found; alpha, beta, gamma, and the delta subunit. The alpha isoform, also known as PI3KCA, is a transforming oncogene that was shown to have activating mutations in nine types of cancers such as colon, brain, breast and stomach.**Applications:** **WB** (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**ICC/IF** (1:100)**Reactivity:** Human, Mouse, Rat  
(predicted: Rabbit, Cow, Chicken)**Predicted MW.:** 124 kDa**Subcellular Location:** Cytoplasm**— VALIDATION IMAGES —**

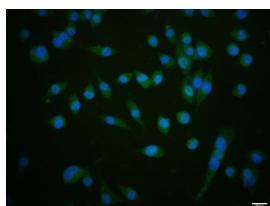
Sample: SW480 (Human) Cell Lysate at 30 ug  
 NIH/3T3(Mouse) Cell Lysate at 30 ug  
 Primary: Anti- PIK3CA (bs-2067R) at 1/1000 dilution  
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
 Predicted band size: 124 kD  
 Observed band size: 124 kD



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PIK3CA) Polyclonal Antibody, Unconjugated (bs-2067R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PIK3CA) Polyclonal Antibody, Unconjugated (bs-2067R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



NIH/3T3 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20

**Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

min; Antibody incubation with (PIK3CA)  
polyclonal Antibody, Unconjugated (bs-2067R)  
1:100, 90 minutes at 37°C; followed by a  
conjugated Goat Anti-Rabbit IgG antibody at  
37°C for 90 minutes, DAPI (blue, C02-04002) was  
used to stain the cell nuclei.

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## — SELECTED CITATIONS —

- **[IF=13.3]** Zhihe Yun. et al. Neural-enhancing PRP/Alg/GelMA triple-network hydrogel for neurogenesis and angiogenesis after spinal cord injury via PI3K/AKT/mTOR signaling pathway. THERANOSTICS. 2025 Mar;15(9):3837 WB ;Rat. 40213674
- **[IF=8.7]** Xue Sun. et al. An injectable shape-adaptive hydrogel system for subconjunctival injuries: In situ and permanently releases rapamycin to prevent fibrosis via promoting autophagy. MATER TODAY BIO. 2025 Feb;30:101380 IF,WB ;Human. 39790484
- **[IF=8.101]** Zhao Yin. et al. Targeting ABCB6 with nitidine chloride inhibits PI3K/AKT signaling pathway to promote ferroptosis in multiple myeloma. FREE RADICAL BIO MED. 2023 Jul;203:86 WB ;Human,Mouse. 37044150
- **[IF=7.701]** Liu, Zhu. et al. Comprehensive transcriptomic profiling and mutational landscape of primary gastric linitis plastica. GASTRIC CANCER. 2022 Nov;:1-17 WB ;Human. 36450891
- **[IF=8.3]** MorinGabriel. et al. Somatic PIK3R1 mutations in the iSH2 domain are accessible to PI3K $\alpha$  inhibition. EMBO MOL MED. 2025 五月 19 ;. 40389643