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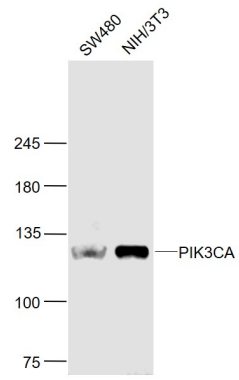
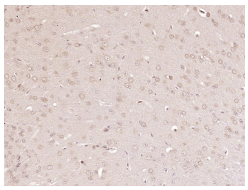
PIK3CA Rabbit pAb

Catalog Number:	bs-2067R
Target Protein:	PIK3CA
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Polyclonal
Isotype:	IgG
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 Locations:	Cytoplasm
Entrez Gene:	5290
Swiss Prot:	P42336
Source:	KLH conjugated synthetic peptide derived from human PI3KCA: 961-1068/1068.
Purification:	affinity purified by Protein A
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 localize 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 has 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.

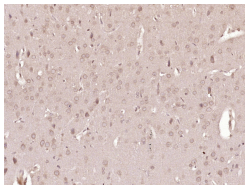
VALIDATION IMAGES



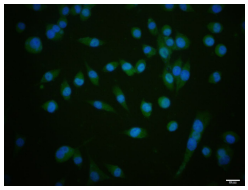
Sample: SW480 (Human) Cell Lysate at 30 ug NIH/3T3(Mouse) Cell Lysate at 30 ug Primary: Anti- PIK3CA (bs-2067R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 124 kD Observed band size: 124 kD



Paraformaldehyde-fixed, paraffin embedded (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) instructionsand DAB staining.



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) instructionsand 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 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.

PRODUCT SPECIFIC PUBLICATIONS

[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=6.7] Li Chen. et al. Xiaohuafuning tang intervenes liver-depression-and-spleen-deficiency syndrome chronic-atrophic-gastritis by reshaping amino acid metabolism through gut Microbiota. PHYTOMEDICINE. 2025 Jan;136:156346 WB ; Rat . 39740378

[IF=6.1] Jiaxin Wang. et al. Acylated Ghrelin Activates PI3K/mTOR Signaling Pathway by Promoting ThPOK Acetylation to Promote Milk Fat Synthesis in Bovine Mammary Epithelial Cells. J AGR FOOD CHEM. 2023;XXXX(XXX):XXX-XXX WB ; Bovine . 38154091