

bs-5570R**[Primary Antibody]****phospho-PI3KCA (Tyr317) Rabbit pAb****Bioss**
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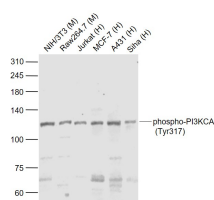
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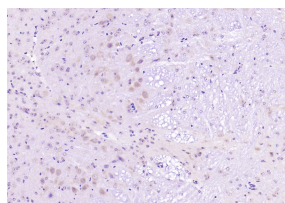
400-901-9800

— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Polyclonal		IHC-P (1:100-500)
GeneID: 5290	SWISS: P42336	IHC-F (1:100-500)
Target: PI3KCA (Tyr317)		IF (1:100-500)
Immunogen: KLH conjugated Synthesised phosphopeptide derived from human PI3KCA around the phosphorylation site of Tyr317: TP(p-Y)MN.		Reactivity: Human, Mouse (predicted: Rat)
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		Predicted MW.: 124 kDa
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.		Subcellular Location: Cytoplasm
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: Lane 1: NIH/3T3 (Mouse) Cell Lysate at 30 ug
 Lane 2: Raw264.7 (Mouse) Cell Lysate at 30 ug
 Lane 3: Jurkat (Human) Cell Lysate at 30 ug
 Lane 4: MCF-7 (Human) Cell Lysate at 30 ug
 Lane 5: A431 (Human) Cell Lysate at 30 ug
 Lane 6: SiHa (Human) Cell Lysate at 30 ug
 Primary: Anti-phospho-PI3KCA (Tyr317) (bs-5570R) at 1/1000 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 110/120 kD
 Observed band size: 110 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 (phospho-PI3KCA (Tyr317)) Polyclonal Antibody, Unconjugated (bs-5570R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

— SELECTED CITATIONS —

- **[IF=19]** Sheng Cheng. et al. Multifunctional Apoptotic Bodies Engineered by Magnesium Oxide Nanoparticles for Synergistic Ischemic Skin Flap Therapy. ADV FUNCT MATER. 2025 May;;2503425 **WB ;Mouse**. 10.1002/adfm.202503425
- **[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=11.161]** Chi, Ming. et al. TEAD4 functions as a prognostic biomarker and triggers EMT via PI3K/AKT pathway in

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- bladder cancer. J EXP CLIN CANC RES. 2022 Dec;41(1):1-20 WB ;Human. 35581606
- **[IF=10.2]** Biao Zhang. et al. Okra juice used for rapid wound healing through its bioadhesive and antioxidant capabilities. MATER TODAY BIO. 2025 Apr;31:101495 WB ;Mouse. 39896277
 - **[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