bs-6417R **[Primary Antibody]**

phospho-PI3 Kinase p110 beta (Ser1070) Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5291 **SWISS:** P42338

Target: PI3 Kinase p110 beta (Ser1070)

Immunogen: KLH conjugated synthesised phosphopeptide derived from human PI3 Kinase p110 beta around the phosphorylation site of Ser1070: YR(p-S).

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: This gene encodes an isoform of the catalytic subunit of phosphoinositide 3-kinase (PI3K). These kinases are important in signaling pathways involving receptors on the outer membrane of eukaryotic cells and are named for their catalytic subunit. The encoded protein is the catalytic subunit for PI3Kbeta (PI3KB). PI3KB has been shown to be part of the activation pathway in neutrophils which have bound immune complexes at sites of injury or infection. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2011].

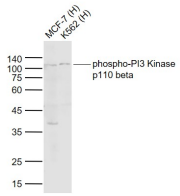
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ICC/IF (1:50)

Reactivity: Human, Mouse, Rat (predicted: Pig, Cow, Chicken, Dog, GuineaPig, Horse)

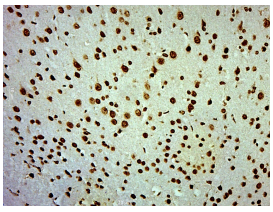
Predicted MW.: 110-123 kDa

Subcellular Location: Cytoplasm ,Nucleus

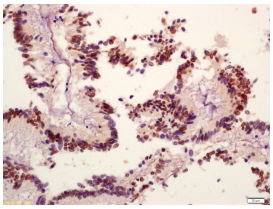
VALIDATION IMAGES



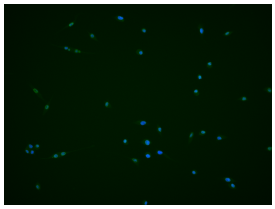
Sample: Lane 1: Human MCF-7 cell lysates Lane 2: Human K562 cell lysates Primary: Anti-phospho-PI3 Kinase p110 beta (Ser1070) (bs-6417R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 110-123 kD Observed band size: 110 kD



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-PI3 Kinase p110 beta(Ser1070)) Polyclonal Antibody, Unconjugated (bs-6417R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: human colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-phospho-PI3 Kinase p110 beta(Ser1070) Polyclonal Antibody, Unconjugated (bs-6417R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



A431 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 (phospho-PI3 Kinase p110 beta (Ser1070)) polyclonal Antibody, Unconjugated (bs-6417R) 1:50, 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.

SELECTED CITATIONS

- **[IF=17.337]** Yun Chen. et al. Extracellular vesicles derived from Akkermansia muciniphila promote placentation and mitigate preeclampsia in a mouse model. J EXTRACELL VESICLES. 2023 May;12(5):12328 WB ;Mouse，Human. 37165987
- **[IF=14.1]** Yanan Wang. et al. Traditional Chinese Medicine Borneol-Based Polymeric Micelles Intracerebral Drug Delivery System for Precisely Pathogenesis-Adaptive Treatment of Ischemic Stroke. ADV SCI. 2025 Jan;:2410889 WB ;Mouse. 39804950
- **[IF=13]** Junwu Wang. et al. Hydrogel and Microgel Collaboration for Spatiotemporal Delivery of Biofactors to Awaken Nucleus Pulposus-Derived Stem Cells for Endogenous Repair of Disc. SMALL. 2024 Sep;:2404732 IF,WB ;Rat. 39308283
- **[IF=11.508]** Qinyu Ma. et al. Osteoclast-derived apoptotic bodies couple bone resorption and formation in bone remodeling. Bone Res. 2021 Jan;9(1):1-12 WB ;Mouse. 33431863
- **[IF=9.918]** Yanhong Pei. et al. Bone marrow mesenchymal stem cells loaded into hydrogel/nanofiber composite scaffolds ameliorate ischemic brain injury. MATER TODAY ADV. 2023 Mar;17:100349 WB ;Rat. 10.1016/j.mtadv.2023.100349