bs-3332R **[Primary Antibody]**

phospho-PI3 kinase p85 alpha + gamma (Tyr467 + Tyr199) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5295 **SWISS:** P27986

Target: phospho-PI3 kinase p85 alpha + gamma (Tyr467 + Tyr199)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human PI3 kinase p85 alpha around the phosphorylation site of Tyr467: RL(p-Y)EE.

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: The enzyme phosphatidylinositol 3 kinase (PI3 kinase) is a lipid kinase that generates phosphatidylinositol 3, 4, 5-triphosphate in response to receptor activation in many signal transduction pathways. Class IA PI3Ks exist as a heterodimer of a catalytic 110 kDa (p110) and a regulatory p85 subunit (e.g. p85 alpha). p85 alpha is an adaptor molecule that regulates the activity of the catalytic p110 subunit by binding to phosphorylated receptor tyrosine kinases (RTKs) through its SH2 domain and mediating the interaction between p110 and the plasma membrane. p85 alpha is necessary for insulin-stimulated increase in glucose uptake and glycogen synthesis in insulin-sensitive tissues.

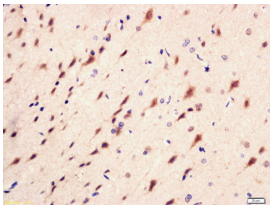
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/test)

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

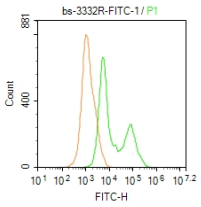
Predicted MW.: 85/55 kDa

Subcellular Location: Cell membrane ,Cytoplasm ,Nucleus

VALIDATION IMAGES



Tissue/cell: rat brain tissue; 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 p85 alpha+gamma (Tyr467+Tyr199) Polyclonal Antibody, Unconjugated(bs-3332R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: Molt4. Primary Antibody (green line): Rabbit Anti- phospho-PI3 kinase p85 alpha + gamma (Tyr467 + Tyr199)/FITC Conjugated antibody (bs-3332R-FITC) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG-FITC . Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at-20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. The cells were stained with Primary Antibody for 30 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=8.2]** Dating Pei. et al. Modulation of macrophage polarization by secondary cross-linked hyaluronan-dopamine hydrogels. INT J BIOL MACROMOL. 2024 Jun;270:132417 WB ;Mouse. 38759857
- **[IF=5.7]** Zhihai Shi. et al. Role of Quercetin in Modulating Inflammation and Epigenetic Regulation of Staphylococcus

aureus-Induced Bovine Mastitis. J AGR FOOD CHEM. 2025;XXXX(XXX):XXX-XXX WB ;Bovine. 40168353

- **[IF=5.614]** Zhu J et al. SPARC Promotes Self‐Renewal of Limbal Epithelial Stem Cells and Ocular Surface Restoration through JNK and p38‐MAPK Signaling Pathways. Stem Cells. 2019 Oct 23. WB ;Rabbit. 31644832
- **[IF=5.742]** Feng Liu. et al. CircRNA_0084927 promotes colorectal cancer progression by regulating miRNA-20b-3p/glutathione S-transferase mu 5 axis. World J Gastroentero. 2021 Sep 28; 27(36): 6064–6078 WB ;Human. 34629820
- **[IF=6.208]** Wen-Ling Liao. et al. Inhibitory Effects of Ursolic Acid on the Stemness and Progression of Human Breast Cancer Cells by Modulating Argonaute-2. INT J MOL SCI. 2023 Jan;24(1):366 WB ;Human. 36613808