bsm-33219M **[Primary Antibody]**

PIK3R1 Mouse mAb

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DATASHEET

Host: Mouse
Isotype: IgG
Clonality: Monoclonal
CloneNo.: 5C11
GeneID: 18708
SWISS: P26450
Target: PIK3R1
Immunogen: Recombinant mouse PI3K p85 Protein: 1-110/724.
Purification: affinity purified by Protein G
Concentration: 1mg/ml
Storage: Size : 50ul/100ul/200ul
0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Size : 200ug (PBS only)
0.01M PBS
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.

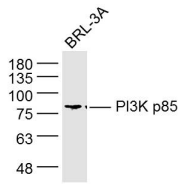
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ICC/IF (1:100)

Reactivity: Human, Mouse, Rat (predicted: Pig)

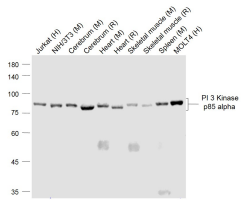
Predicted MW.: 80 kDa

Subcellular Location: Cell membrane ,Cytoplasm ,Nucleus

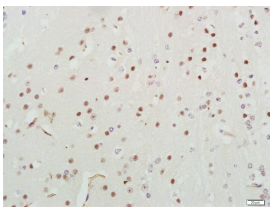
VALIDATION IMAGES



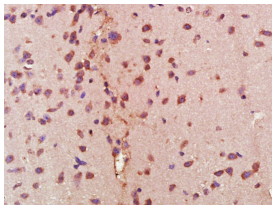
Sample: BRL-3A Cell (Rat) Lysate at 40 ug Primary: Anti-PI3K p85 (bsm-33219M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 80 kD Observed band size: 80 kD



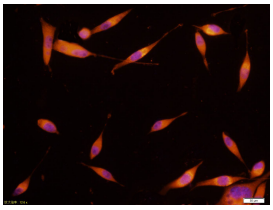
Sample: Lane 1: Jurkat (Human) Cell Lysate at 30 ug Lane 2: NIH/3T3(Mouse) Cell Lysate at 30 ug Lane 3: Cerebrum (Mouse) Lysate at 40 ug Lane 4: Cerebrum (Rat) Lysate at 40 ug Lane 5: Heart (Mouse) Lysate at 40 ug Lane 6: Heart (Rat) Lysate at 40 ug Lane 7: Skeletal muscle (Mouse) Lysate at 40 ug Lane 8: Skeletal muscle (Rat) Lysate at 40 ug Lane 9: Spleen (Mouse) Lysate at 40 ug Lane 10: MOLT4 (Human) Cell Lysate at 30 ug Primary: Anti-PI 3 Kinase p85 alpha (bsm-33219M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 85 kD Observed band size: 85 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 (PI3K p85) Monoclonal Antibody, Unconjugated (bsm-33219M) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes 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 (PI 3 Kinase p85 alpha) Monoclonal Antibody, Unconjugated (bsm-33219M) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Mouse) (sp-0024) instructionsand DAB staining.



SH-SY5Y 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 (PI 3 Kinase p85 alpha) monoclonal Antibody, Unconjugated (bsm-33219M) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Mouse IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

SELECTED CITATIONS

- **[IF=8.3]** Jingjing Hu. et al. Raspberry ameliorates renal fibrosis in rats with chronic kidney disease via the PI3K/Akt pathway. PHYTOMEDICINE. 2025 May;140:156589 WB ;Rat. 40056634
- **[IF=6.376]** Xu, Qinqin. et al. Exenatide regulates Th17/Treg balance via PI3K/Akt/FoxO1 pathway in db/db mice. MOL MED. 2022 Dec;28(1):1-14 WB ;Mouse. 36463128
- **[IF=4.7]** Xiao-Ying Gao. et al. Molybdenum interferes with MMPs/TIMPs expression to reduce the receptivity of porcine endometrial epithelial cells. CHEM-BIOL INTERACT. 2025 Jan;405:111304 WB ;Porcine. 39486568
- **[IF=4.694]** Qamar H et al. Plastrum Testudinis Extract Mitigates Thiram Toxicity in Broilers via Regulating PI3K/AKT Signaling. Biomolecules. 2019 Nov 26;9(12). WB,IHC ;Chicken. 31779199
- **[IF=3.5]** Liu Ye. et al. Effects of Insulin on Proliferation, Apoptosis, and Ferroptosis in Primordial Germ Cells via PI3K-AKT-mTOR Signaling Pathway. GENES-BASEL. 2023 Oct;14(10):1975 WB ;Chicken. 37895324