bsm-52219M **[Primary Antibody]**

PIK3R1 Mouse mAb

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DATASHEET

Host: Mouse
Isotype: IgG
Clonality: Monoclonal
CloneNo.: 9B3
GeneID: 5295
SWISS: P27986
Target: PIK3R1
Purification: affinity purified by Protein A
Concentration: 1mg/ml
Storage: Size : 50ul/100ul
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.

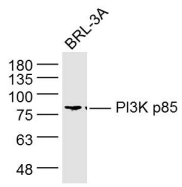
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ICC/IF (1:100)

Reactivity: Human, Mouse, Rat

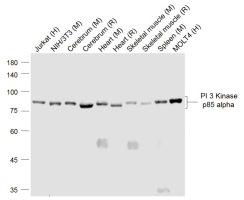
Predicted MW.: 80 kDa

Subcellular Location: Cell membrane ,Cytoplasm ,Nucleus

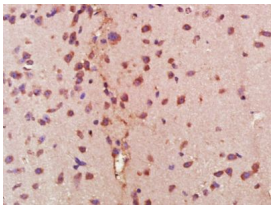
VALIDATION IMAGES



Sample: BRL-3A Cell (Rat) Lysate at 40 ug Primary: Anti-PI3K p85 (bsm-52219M) 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-52219M) 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 (PIK3R1) Monoclonal Antibody, Unconjugated (bsm-52219M) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Mouse) (sp-0024) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=3.943]** Di Wu. et al. Alpinetin prevents inflammatory responses in OVA-induced allergic asthma through modulating PI3K/AKT/NF-κB and HO-1 signaling pathways in mice. Int Immunopharmacol. 2020 Dec;89:107073 WB ;Mouse. 33039967

- **[IF=4.014]** Hanpeng Wu. et al. The release of FB1-induced heterophil extracellular traps in chicken is dependent on autophagy and glycolysis. POULTRY SCIENCE. 2023 Jan;:102511 WB ;Chicken. 10.1016/j.psj.2023.102511