bs-3396R **[Primary Antibody]**

phospho-SGK1 (Ser422) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 6446 **SWISS:** O00141

Target: SGK1 (Ser422)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human SGK1 around the phosphorylation site of Ser422: GF(p-S)YA.

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: SGK1 is a protein kinase that plays an important role in cellular stress response. SGK1 activates certain potassium, sodium, and chloride channels, suggesting an involvement in the regulation of processes such as cell survival, neuronal excitability, and renal sodium excretion. Sustained high levels of SGK1 and activity may contribute to conditions such as hypertension and diabetic nephropathy. This protein also mediates cell survival signals, as it has been shown to phosphorylate and negatively regulate the pro apoptotic FOXO3A protein. Ser 422 is a critical site on the protein and may be involved in its activation.

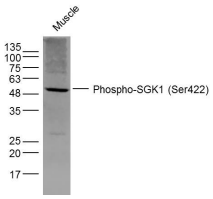
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (2ug/Test)

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

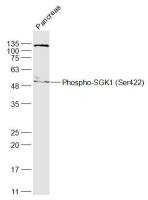
Predicted MW.: 49 kDa

Subcellular Location: Cell membrane ,Cytoplasm ,Nucleus

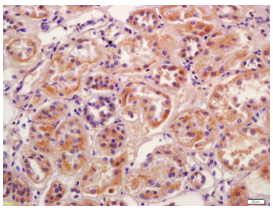
VALIDATION IMAGES



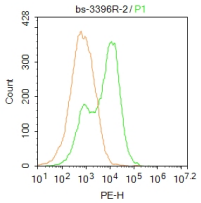
Sample: Muscle (Mouse) Lysate at 40 ug Primary: Anti- Phospho-SGK1 (Ser422) (bs-3396R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 49 kD Observed band size: 49 kD



Sample: Pancreas (Mouse) Lysate at 40 ug Primary: Anti-Phospho-SGK1 (Ser422) (bs-3396R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 49 kD Observed band size: 49 kD



Tissue/cell: human kidney 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-SGK1(Ser422) Polyclonal Antibody, Unconjugated(bs-3396R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: Mouse spleen. Primary Antibody (green line): Rabbit Anti-SGK1 antibody (bs-3396R) Dilution: 2µg /10^6 cells; Isotype

Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-PE Dilution: 1μg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol 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 at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=14.3]** Zhuqi Huang. et al. Macrophage WEE1 Directly Binds to and Phosphorylates NF-κB p65 Subunit to Induce Inflammatory Response and Drive Atherosclerosis. ADV SCI. 2025 Apr;:2503192 ;. 40202104
- **[IF=4.543]** Subhojit Paul. et al. Modulation of lung cytoskeletal remodeling, RXR based metabolic cascades and inflammation to achieve redox homeostasis during extended exposures to lowered pO 2. 2021 May 17 WB ;Human, Rat. 34002323
- **[IF=4.3]** Wang Huikang. et al.Elucidation of Dexmedetomidine-Induced Analgesic Tolerance Mechanisms in Neuropathic Pain With Modulation of SGK1,NR2A,and NR2B Expression via the Spinal SGK1/NF-κB Signalling Pathway..JOURNAL OF CELLULAR AND MOLECULAR MEDICINE.2025 Mar;29(6):e70372. IF ;Mouse. 40099662
- **[IF=1.951]** Xiu Fei. et al. Aldosterone alleviates lipopolysaccharide-induced acute lung injury by regulating epithelial sodium channel through PI3K/Akt/SGK1 signaling pathway. Mol Cell Probe. 2021 Mar;:101709 WB ;Mouse. 33713776