bs-6475R **[Primary Antibody]**

SGK3 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 100533105 **SWISS:** Q96BR1

Target: SGK3

Immunogen: KLH conjugated synthetic peptide derived from human SGK3: 51-150/496.

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: Serine/threonine-protein kinase Sgk3 (SGK3), also designated serum/glucocorticoid regulated kinase 3, belongs to the Ser/Thr protein kinase family of proteins. The serum- and glucocorticoid-regulated kinase proteins are closely related to the Akt protein family. SGK1, a homolog of SGK3, activates ion channels, in particular potassium (K+) channels. SGK2 and SGK3 have been found to also be involved in this activation process, making all three of these proteins important regulators for cell proliferation, epithelial transport and neuromuscular excitability. SGK3 acts as a mediator of IL-3 dependent survival signals in the cell. It localizes to the early endosome and in vesicle-like structures. SGK3 is a widely expressed protein, but it is primarily detected in kidney, liver, pancreas, brain and heart. Phosphorylation of SGK3 at residue Ser 486 leads to an increase in SGK3 activation.

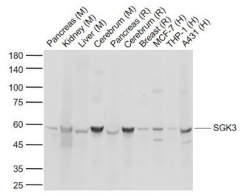
Applications: **WB** (1:500-2000)

Reactivity: Human, Mouse, Rat

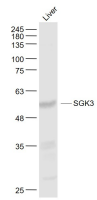
Predicted MW.: 57 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Sample: Lane 1: Mouse Pancreas tissue lysates Lane 2: Mouse Kidney tissue lysates Lane 3: Mouse Liver tissue lysates Lane 4: Mouse Cerebrum tissue lysates Lane 5: Rat Pancreas tissue lysates Lane 6: Rat Cerebrum tissue lysates Lane 7: Rat Breast tissue lysates Lane 8: Human MCF-7 cell lysates Lane 9: Human THP-1 cell lysates Lane 10: Human A431 cell lysates Primary: Anti-SGK3 (bs-6475R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 57 kD Observed band size: 57 kD



Sample: Liver (Mouse) Lysate at 40 ug Primary: Anti- SGK3 (bs-6475R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 57 kD Observed band size: 57 kD

SELECTED CITATIONS

- **[IF=5.5]** Zhang et al. Epidermal Growth Factor Promotes Proliferation and Migration of Follicular Outer Root Sheath Cells via Wnt/β-Catenin Signaling. (2016) Cell.Physiol.Biochem. 39:360-70 IHC ;Human. 27352380
- **[IF=4.65]** Zhang, H., et al. "Epidermal Growth Factor Promotes Proliferation and Migration of Follicular Outer Root

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Sheath Cells via Wnt/β-Catenin Signaling."Cellular Physiology and Biochemistry 39.1 (2016): 360-370. WB ;="Human". 27352380

- **[IF=4.858]** Qianyu Huo. et al. Free CA125 promotes ovarian cancer cell migration and tumor metastasis by binding Mesothelin to reduce DKK1 expression and activate the SGK3/FOXO3 pathway. Int J Biol Sci. 2021; 17(2): 574–588 WB ;Mouse. 33613114
- **[IF=3.699]** Zijian Ye . et al. MiR-92b-3p inhibits proliferation and migration of C2C12 cells. Cell Cycle. 2020;19(21):2906-2917 WB ;Mouse. 33043788
- **[IF=3.251]** Yanping Jian. et al. Upregulation of Spinal miR-155-5p Contributes to Mechanical Hyperalgesia by Promoting Inflammatory Activation of Microglia in Bone Cancer Pain Rats. LIFE-BASEL. 2022 Sep;12(9):1349 IF ;Rat. 10.3390/life12091349

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