bs-5668R **[Primary Antibody]**

phospho-RPS6KB1 (Ser417) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 6198 **SWISS:** P23443

Target: RPS6KB1 (Ser417)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human RPS6KB1 around the phosphorylation site of Ser417: AP(p-S)VL.

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: This gene encodes a member of the ribosomal S6 kinase family of serine/threonine kinases. The encoded protein responds to mTOR (mammalian target of rapamycin) signaling to promote protein synthesis, cell growth, and cell proliferation. Activity of this gene has been associated with human cancer. Alternatively spliced transcript variants have been observed. The use of alternative translation start sites results in isoforms with longer or shorter N-termini which may differ in their subcellular localizations. There are two pseudogenes for this gene on chromosome 17. [provided by RefSeq, Jan 2013]

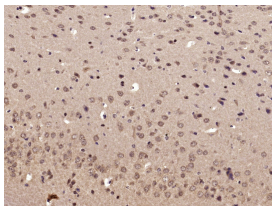
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ICC/IF (1:100-500)

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

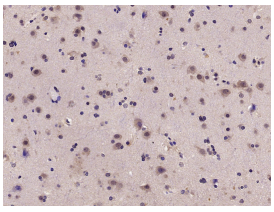
Predicted MW.: 58 kDa

Subcellular Location: Cytoplasm ,Nucleus

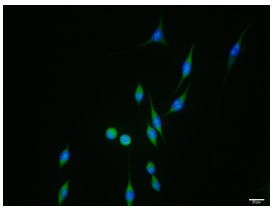
VALIDATION IMAGES



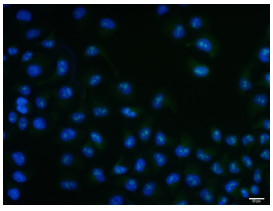
Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (phospho-RPS6KB1(Ser417)) Polyclonal Antibody, Unconjugated (bs-5668R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP)and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (phospho-RPS6KB1(Ser417)) Polyclonal Antibody, Unconjugated (bs-5668R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP)and DAB staining.



NIH/3T3 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 (phospho-RPS6KB1 (Ser417) polyclonal Antibody, Unconjugated (bs-5668R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Hela 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 (phospho-

RPS6KB1 (Ser417)) polyclonal Antibody, Unconjugated (bs-5668R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

SELECTED CITATIONS

- **[IF=3.738]** Mao, Yushan. et al. Moxidectin induces autophagy arrest in colorectal cancer. MED ONCOL. 2022 Dec;39(12):1-11 WB ;Human. 36175702
- **[IF=3.565]** Liu J. et al. Moxidectin induces Cytostatic Autophagic Cell Death of Glioma Cells through inhibiting the AKT/mTOR Signalling Pathway.. J Cancer. 2020 Aug;11(19):5802-5811 WB ;Human, Rat. 32913473
- **[IF=3.738]** Zong, Jinxin. et al. Lithium Chloride Promotes Milk Protein and Fat Synthesis in Bovine Mammary Epithelial Cells via HIF-1α and β-Catenin Signaling Pathways. Biol Trace Elem Res. 2022 Jan;:1-16 WB ;Bovine. 35080710
- **[IF=3.895]** Yin H et al. T-2 Toxin Induces Oxidative Stress, Apoptosis and Cytoprotective Autophagy in Chicken Hepatocytes. Toxins (Basel). 2020 Jan 29;12(2). WB ;Chicken. 32013230
- **[IF=2.9]** Chen Zhujun. et al. HSF1 and CPSF1 affect milk fat and protein synthesis by regulating the AKT/mTOR signaling pathway. J ANIM SCI. 2025 Feb;: WB ;Bovine. 39932399