bs-5367R **[Primary Antibody]**

phospho-GSK-3 Beta (Ser21+Ser29) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2932 **SWISS:** P49841

Target: GSK-3 Beta (Ser21+Ser29)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human GSK-3 Beta around the phosphorylation site of Ser21+Ser29: QP(p-S)AFGSMKV(p-S)RD.

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: The protein encoded by this gene is a serine-threonine kinase, belonging to the glycogen synthase kinase subfamily. It is involved in energy metabolism, neuronal cell development, and body pattern formation. Polymorphisms in this gene have been implicated in modifying risk of Parkinson disease, and studies in mice show that overexpression of this gene may be relevant to the pathogenesis of Alzheimer disease. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]

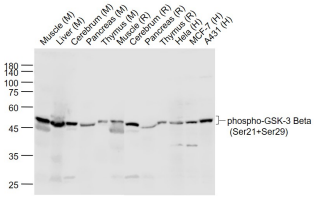
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ICC/IF (1:100)

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

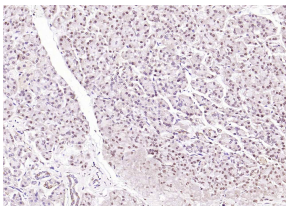
Predicted MW.: 46 kDa

Subcellular Location: Cell membrane ,Cytoplasm ,Nucleus

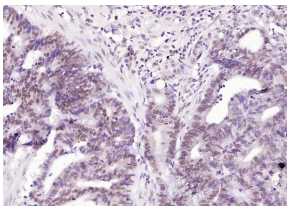
VALIDATION IMAGES



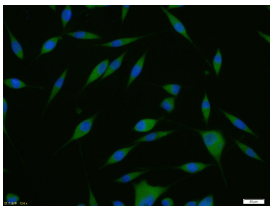
Sample: Lane 1: Muscle (Mouse) Lysate at 40 ug Lane 2: Liver (Mouse) Lysate at 40 ug Lane 3: Cerebrum (Mouse) Lysate at 40 ug Lane 4: Pancreas (Mouse) Lysate at 40 ug Lane 5: Thymus (Mouse) Lysate at 40 ug Lane 6: Muscle (Rat) Lysate at 40 ug Lane 7: Cerebrum (Rat) Lysate at 40 ug Lane 8: Pancreas (Rat) Lysate at 40 ug Lane 9: Thymus (Rat) Lysate at 40 ug Lane 10: Hela (Human) Cell Lysate at 30 ug Lane 11: MCF-7 (Human) Cell Lysate at 30 ug Lane 12: A431 (Human) Cell Lysate at 30 ug Primary: Anti-phospho-GSK-3 Beta (Ser21+Ser29) (bs-5367R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 47 kD Observed band size: 47 kD



Paraformaldehyde-fixed, paraffin embedded (human pancreas); 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; Incubation with (phospho-GSK-3 Beta (Ser21+Ser29)) Polyclonal Antibody, Unconjugated (bs-5367R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); 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; Incubation with (phospho-GSK-3 Beta (Ser21+Ser29)) Polyclonal Antibody, Unconjugated (bs-5367R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



A431 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-GSK-3 Beta (Ser21+Ser29)) polyclonal Antibody, Unconjugated (bs-5367R) 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=4.081]** Liu Jiayi. et al. Lithium Chloride Promotes Endogenous Synthesis of CLA in Bovine Mammary Epithelial Cells. BIOL TRACE ELEM RES. 2023 Apr;:1-14 WB ;Bovine. 37099221
- **[IF=3.024]** J Song. et al. MSCs reduce airway remodeling in the lungs of asthmatic rats through the Wnt/β-catenin signaling pathway.. Eur Rev Med Pharmaco. 2020 Nov;24(21):11199-11211 WB ;Rat. 33215438
- **[IF=3.2]** Jiaqi Li. et al. Gold Nanoparticle Delivery of Glut1 siRNA Facilitates Glucose Starvation Therapy in Lung Cancer. CHEMBIOCHEM. 2024 Apr;:e202400239 WB ;Human. 38623847