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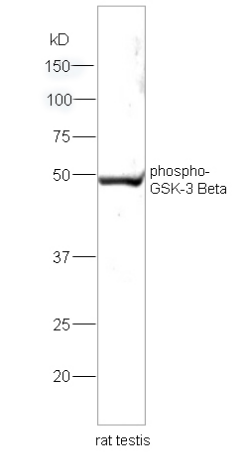
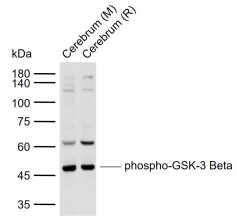
phospho-GSK-3 Beta (Ser9) Rabbit pAb

Catalog Number:	bs-2066R
Target Protein:	phospho-GSK-3 Beta (Ser9)
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Polyclonal
Isotype:	IgG
Applications:	WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (1ug/Test), ICC/IF (1:100)
Reactivity:	Human, Mouse, Rat
Predicted MW:	47 kDa
Entrez Gene:	2932
Swiss Prot:	P49841
Source:	KLH conjugated Synthesised phosphopeptide derived from human GSK-3 Beta around the phosphorylation site of Ser9: TT(p-S)FA.
Purification:	affinity purified by Protein A
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]

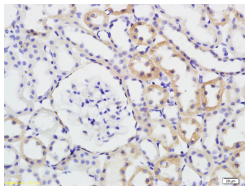
VALIDATION IMAGES



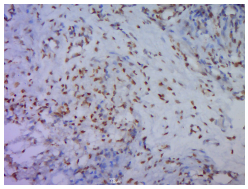
Sample: Testis (Rat) Lysate at 30 ug Primary: Anti-phospho-GSK-3 Beta(Ser9) (bs-2066R) at 1:200 dilution; Secondary: HRP conjugated Goat Anti-Rabbit IgG(bs-0295G-HRP) at 1: 5000 dilution; Predicted band size : 47kD Observed band size : 49kD



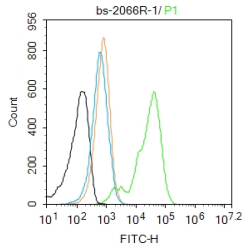
Sample: Lane 1: Mouse Cerebrum tissue lysates Lane 2: Rat Cerebrum tissue lysates Primary: Anti-phospho-GSK-3 Beta (Ser9) (bs-2066R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 47 kDa Observed band size: 47 kDa

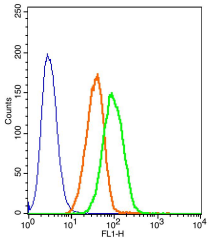


Tissue/cell: rat kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-phospho-GSK-3 Beta(Ser9) Polyclonal Antibody, Unconjugated(bs-2066R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (Mouse placenta); 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 (Beta(Ser9)) Polyclonal Antibody, Unconjugated (bs-2066R p-GSK-3) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.





Blank control: A431. Primary Antibody (green line): Rabbit Anti-phospho-GSK-3 Beta (Ser9) antibody (bs-2066R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF488 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 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.

The blue histogram is unstained cells(A549 cells). The Orange histogram is cells stained with Rabbit IgG/FITC (bs-0295P-FITC). The green histogram is cells stained with Rabbit Anti-phospho-GSK-3 Beta(Ser9)/FITC Conjugated antibody (bs-2066R-FITC). Isotype control: Cell lines treated with Rabbit IgG/FITC(bs-0295P-FITC) instead of the primary antibody to confirm that primary antibody binding is specific. Concentration: 5µL in 100 µL 1 X PBS containing 0.5% BSA.

PRODUCT SPECIFIC PUBLICATIONS

[IF=7.971] He J et al. SLC34A2 Simultaneously Promotes Papillary Thyroid Carcinoma Growth and Invasion Through Distinct Mechanisms. Oncogene. 2020 Mar;39(13):2658-2675. WB ; human . 32005974

[IF=6.17] Tong Xu. et al. Lithium chloride represses abdominal aortic aneurysm via regulating GSK3β/SIRT1/NF-κB signaling pathway. Free Radical Bio Med. 2021 Apr;166:1 WB,IHC ; Rat . 33588051

[IF=5.52] Mikami, Norihisa, et al. "Calcitonin gene-related peptide and cyclic adenosine 5'-monophosphate/protein kinase A pathway promote IL-9 production in Th9 differentiation process. 2013 Apr 15;190(8):4046-55. Other ; ="" . 23509367

[IF=6.023] Ling Xie. et al. Suppression of GOLM1 by EGCG through HGF/HGFR/AKT/GSK-3β/β-catenin/c-Myc signaling pathway inhibits cell migration of MDA-MB-231. Food Chem Toxicol. 2021 Nov;157:112574 WB ; human . 34536514

[IF=5.5] Wang Y et al. High Concentration of Aspirin Induces Apoptosis in Rat Tendon Stem Cells via Inhibition of the Wnt/β-Catenin Pathway. (2018) Cell Physiol Biochem;50(6):2046-2059. WB ; Rat . 30415260