

GSK3 β (Phospho-Ser9) Antibody

Catalog No: #11002



Package Size: #11002-1 50ul #11002-2 100ul #11002-4 25ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	GSK3 β (Phospho-Ser9) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of GSK3 beta only when phosphorylated at serine 9.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 9 (T-T-S(p)-F-A) derived from Human GSK3 β .
Target Name	GSK3 β
Modification	Phospho-Ser9
Other Names	Factor A, GSK-3 beta, Protein kinase GSK-3-beta, kinase GSK-3 beta
Accession No.	Swiss-Prot: P49841NCBI Protein: NP_001139628.1
SDS-PAGE MW	46kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Avoid Store at 4°C for short term use.

Application Details

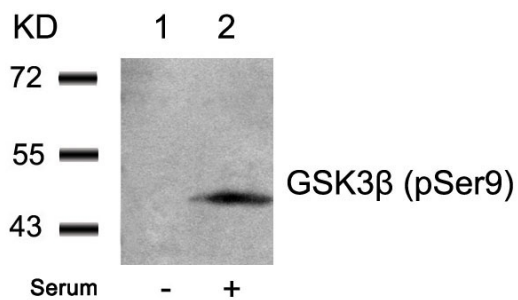
Predicted MW: 46kd

Western blotting: 1:500~1:1000

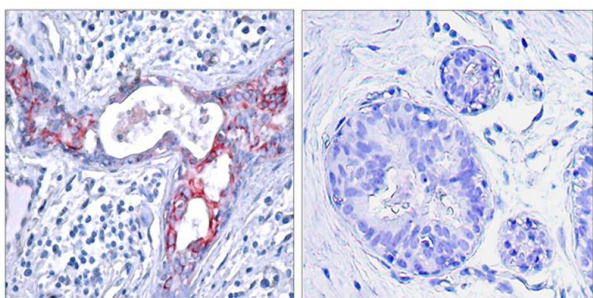
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

Images



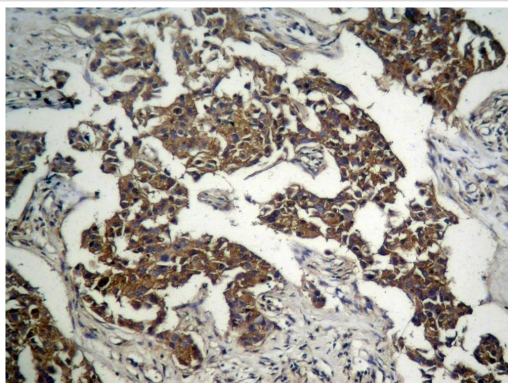
Western blot analysis of extracts from 293 cells untreated(lane 1) or treated with serum(lane 2) using GSK3β(Phospho-Ser9) Antibody #11002.



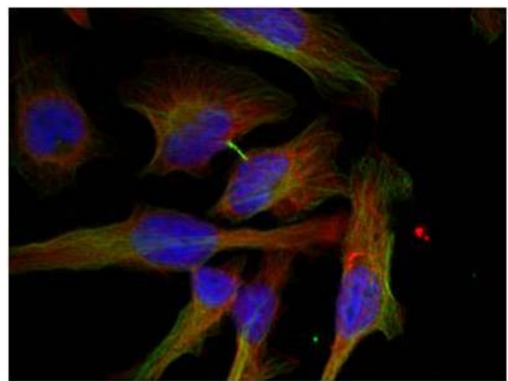
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using GSK3β (Phospho-Ser9) Antibody #11002 (left) or the same antibody preincubated with blocking peptide #51002 (right).



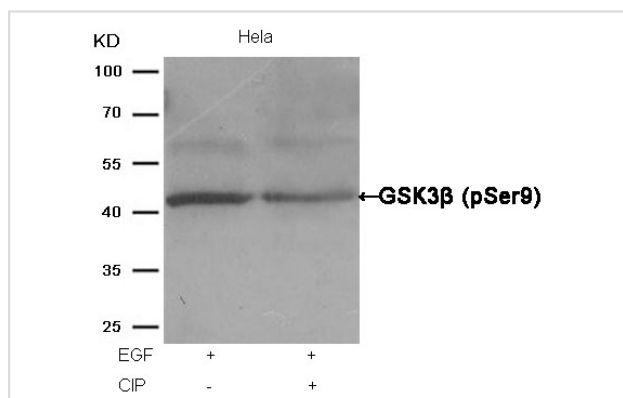
Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic staining using GSK3β(Phospho-Ser9) Antibody #11002.



Immunohistochemical analysis of paraffin-embedded human Lung carcinoma tissue using GSK3β (Phospho-Ser9) Antibody #11002.



Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic staining using GSK3β (Phospho-Ser9) Antibody #11002.



Western blot analysis of extracts from HeLa cells, treated with EGF or calf intestinal phosphatase (CIP), using GSK3 β (Phospho-Ser9) Antibody #11002.

Background

Participates in the Wnt signaling pathway. Implicated in the hormonal control of several regulatory proteins including glycogen synthase, MYB and the transcription factor JUN. Phosphorylates JUN at sites proximal to its DNA-binding domain, thereby reducing its affinity for DNA. Phosphorylates MUC1 in breast cancer cells, and decreases the interaction of MUC1 with CTNNB1/beta-catenin. Phosphorylates CTNNB1/beta-catenin.

Fan G, et al. (2003) J Biol Chem. 278(52): 52432-52436.

Barry FA, et al. (2003) FEBS Lett. 553(1-2): 173-178.

Welsh, et al. (1996) Trends Cell Biol. 6: 274-279.

Srivastava A K, et al. (1998) Mol Cell Biochem. 182: 135-141.

Published Papers

Cong REN, Jia-Mou LI, Xin LIN et al., LIPUS Enhance Elongation of Neurites in Rat Cortical Neurons through Inhibition of GSK-3 β , Biomedical and Environmental Sciences, 23(3):244-249(2010)

[PMID:20708505](#)

Estefan B de Munck, Emma Muñoz-SB, Begoña G. Miguel et al., B-N-methylamino-L-alanine causes neurological and pathological phenotypes mimicking Amyotrophic Lateral Sclerosis (ALS): The first step towards an experimental model for sporadic ALS, environmental toxicology and pharmacology, 36:243-255(2013)

[PMID:23688553](#)

Wen-Fei Tan, Xue-Zhao Cao, Jun-Ke Wang et al., Protective effects of lithium treatment for spatial memory deficits induced by tau hyperphosphorylation in splenectomized rats, Clinical and Experimental Pharmacology and Physiology, 37(10):1010-1015(2010)

[PMID:20659131](#)

Yingjuan Yang, Jinzeng Yang, Rongxin Liu et al., Accumulation of β -catenin by lithium chloride in porcine myoblast cultures accelerates cell differentiation, Molecular Biology Reports, Volume 38, Number 3, Pages 2043-2049(2011)

[PMID:20857211](#)

Yu-fei Pan, Li-wei Dong, Min Wang et al., Signal regulatory protein β 1 negatively regulates mast-cell activation following Fc β RI aggregation, Eur. J. Immunol., 43(6):1598-1607(2013)

[PMID:23504624](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.