GSK3β(Phospho-Ser9) Antibody

Catalog No: #11002

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

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

Description

Product Name	GSK3β(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 chromatogramphy 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	Synthesized phospho-peptide around the phosphorylation site of human GSK3β (phospho Ser9)
Target Name	GSK3β
Modification	Phospho
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
Uniprot	P49841
GeneID	2932;
SDS-PAGE MW	46kd
Concentration	1.0mg/ml
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C for long term preservation (recommended). Avoid Store at 4°C for short term use.

Application Details

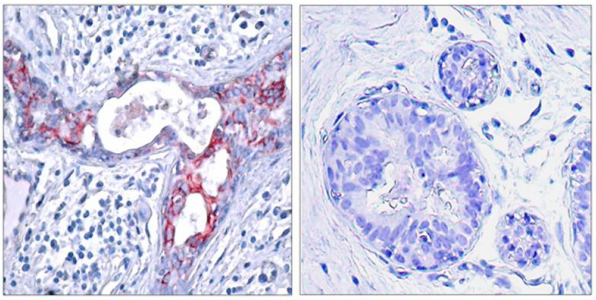
Predicted MW: 46kd

Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

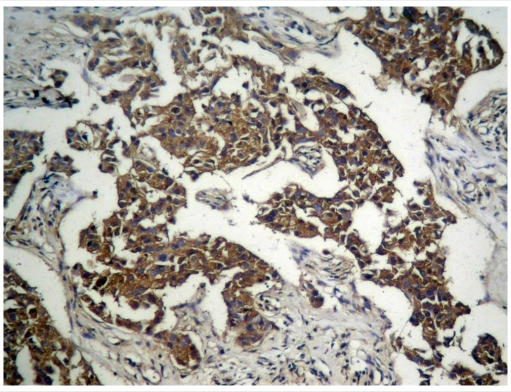
Immunofluorescence: 1:100~1:200

Images

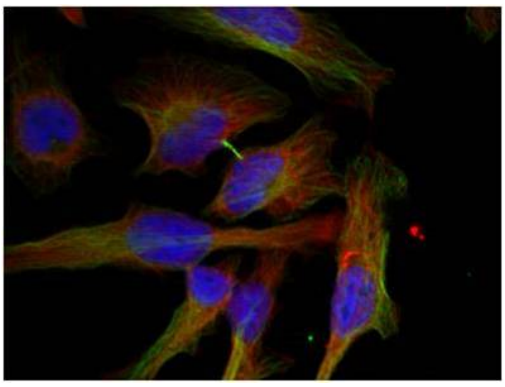


Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using GSK3β (Phospho-Ser9) Antibody #11002 (left) or the same antibody preincubated with blocking peptide(right).

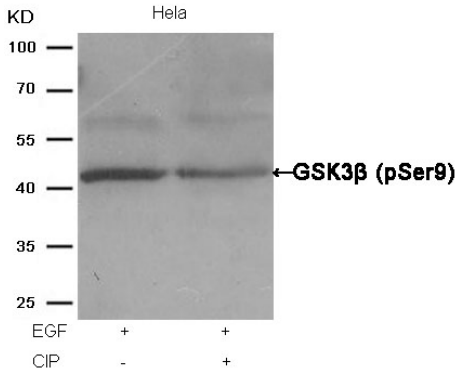
Immunofluorescence staining of methanol-fixed Hela cells showing cytoplasmic staining using GSK3β(Phospho-Ser9) Antibody #11002.



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 GSK3β (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.

Note: This product is for in vitro research use only