

Phospho-Ser9 GSK3 β Antibody
Affinity purified rabbit polyclonal antibody
Catalog # AN1117

Specification

Phospho-Ser9 GSK3 β Antibody - Product Information

Application	WB
Primary Accession	P18266
Reactivity	Rat
Predicted	Bovine, Chicken, Human, Mouse, Monkey, Xenopus, Zebrafish
Host	Rabbit
Clonality	polyclonal
Calculated MW	46 KDa

Phospho-Ser9 GSK3 β Antibody - Additional Information

Gene ID	84027
Gene Name	GSK3B
Other Names	
Glycogen synthase kinase-3 beta, GSK-3 beta, Factor A, FA, Serine/threonine-protein kinase GSK3B, Gsk3b	

Target/Specificity

Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser9 conjugated to KLH.

Dilution

WB~~ 1:1000

Format

Prepared from rabbit serum by affinity purification via sequential chromatography on phospho- and dephosphopeptide affinity columns.

Antibody Specificity

Specific for the ~46k GSK3 β protein phosphorylated at Ser9. Also weakly labels the ~51k GSK3 α band due to the high degree of homology between the 2 subunits. Immunolabeling is blocked by the phosphopeptide used as antigen but not by the corresponding dephosphopeptide

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Phospho-Ser9 GSK3 β Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

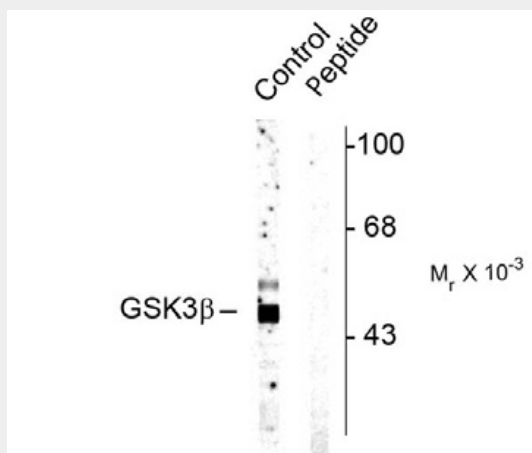
Blue Ice

Phospho-Ser9 GSK3 β Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Phospho-Ser9 GSK3 β Antibody - Images



Western blot of rat cortex lysate showing specific immunolabeling of the ~46 k GSK3 β protein phosphorylated at Ser9 (control). Immunolabeling is blocked by the phospho-peptide (peptide) used as antigen but not by the corresponding dephosphopeptide (not shown).

Phospho-Ser9 GSK3 β Antibody - Background

Glycogen synthase kinase 3 (GSK3) is a serine/threonine kinase that is involved in the regulation of many signaling pathways. To date, 2 isoforms have been identified: GSK3 α and GSK3 β . Specifically, GSK3 β has been shown to play a key inhibitory role in both the insulin and Wnt signaling pathways (Papkoff and Aikawa 1998). It has been suggested that Ser9 phosphorylation underlies the inhibition of GSK3 β by insulin (Sutherland et al., 1993).

Phospho-Ser9 GSK3 β Antibody - References

Sutherland C, Leighton IA, Cohen P (1993) Inactivation of glycogen synthase kinase 3 beta by phosphorylation: new kinase connections in insulin and growth factor signaling. *Biochem J.* Nov 15; 296 (Pt. 1):15-9.

Papkoff J, Aikawa M (1998) WNT-1 and HGF regulate GSK3b activity and beta catenin signaling in mammary epithelial cells. *Biochem Biophys Res Commun.* Jun 29;247(3):851-8.