



GSK3 β (Phospho-Ser9) Antibody

#11002

Catalog Number: 11002-1, 11002-2

Amount: 50 μ g/50 μ l, 100 μ g/100 μ l

Swiss-Prot No. : P49841

Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Storage/Stability: Store at -20°C/1 year

Immunogen: The antiserum was produced against synthesized phosphopeptide derived from human GSK3 β around the phosphorylation site of serine 9 (T-T-Sp-F-A).

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

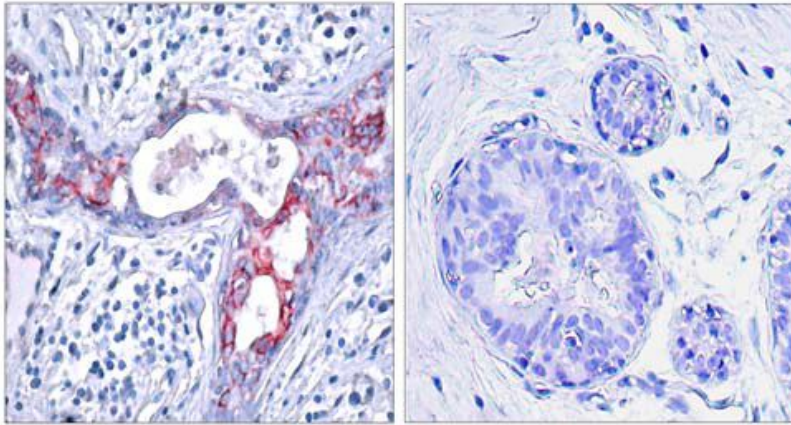
Specificity/Sensitivity: GSK3 β (phospho-Ser9) antibody detects endogenous levels of GSK3 β only when phosphorylated at serine 9.

Reactivity: Human, Mouse, Rat

Applications:

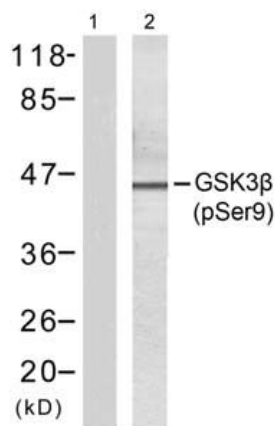
Predicted MW: 46kd

WB: 1:500~1:1000 IHC: 1:50~1:100 IF:1:100~1:200



| | | |
|-----------|---|---|
| P-Peptide | - | + |
|-----------|---|---|

. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using GSK3 β (phospho-Ser9) antibody (#11002) .



Serum + +

P-Peptide + -

Western blot analysis of extracts from 293 cells using GSK3 β (phospho-Ser9) antibody (#11002).



Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic staining 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.

References:

- 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.