

GSK3 β (Phospho-Ser9) Polyclonal Antibody

ORDERING INFORMATION

Catalog No.: 43002

Format: 100ul at 1.0mg/ml in PBS (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Affinity-purified on phosphopeptide; non-phosphopeptide-reactive antibodies were removed by chromatography on non-phosphorylated peptide.

BACKGROUND

GSK3 β participates in the Wnt signaling pathway and is implicated in the hormonal control of several regulatory proteins including glycogen synthase, MYB and the transcription factor JUN. GSK3 β phosphorylates JUN at sites proximal to its DNA-binding domain, thereby reducing its affinity for DNA. It also phosphorylates CTNNB1/beta-catenin and MUC1 in breast cancer cells and decreases the interaction of MUC1 with CTNNB1/beta-catenin.

SPECIFICATION SUMMARY

Antigen: Peptide sequence that includes phosphorylation site of serine 9 (T-T-S(p)-F-A) derived from Human GSK3 β and conjugated to KLH.

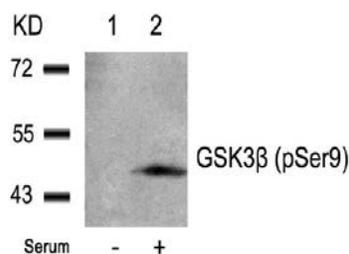
Accession no.: P49841, NP_001139628.1

Host Species: Rabbit

Specificity: This antibody detects endogenous human, mouse, and rat GSK3 beta only when phosphorylated at serine 9.

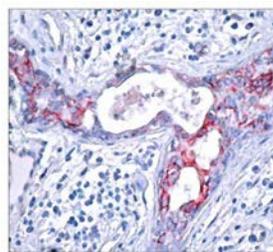
APPLICATIONS

Western blotting: use at dilution of 1:500-1:1,000. A band of ~46kDa is detected.



Detection of GSK3 β (phospho-Ser9) in 293 cell extracts untreated or treated with serum.

Immunohistochemistry: use at dilution of 1:50-1:100.



Detection of GSK3 β (phospho-Ser9) in paraffin-embedded human breast carcinoma tissue.

These are recommended working dilutions. Enduser should determine optimal dilutions for their applications.

DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Can be stored at 4°C for short-term.

For in vitro investigational use only. Not intended for therapeutic or diagnostic applications.