GSK3α (Phospho-Ser21) Polyclonal Antibody

ORDERING INFORMATION

Catalog No.: 43007

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 acts as a multifunctional downstream switch that determines the output of numerous signaling pathways. There are two mammalian GSK-3 isoforms encoded by distinct genes, GSK3 alpha and GSK3 beta, which are structurally similar, but functionally non-identical. GSK3α is inhibited by phosphorylation at S21 by Akt and other kinases. Dysregulated GSK3 has been implicated in several diseases including type II diabetes, Alzheimers disease, and cancer.

SPECIFICATION SUMMARY

Antigen: Peptide sequence that includes phosphorylation site of serine 21 (T-S-S(p)-F-A) derived from human GSK3α and conjugated to KLH.

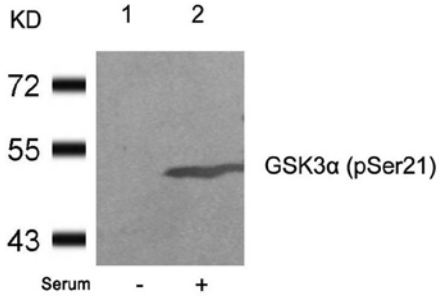
Accession no.: P49840, NP_063937.2

Host Species: Rabbit

Specificity: This antibody detects endogenous human, mouse, and rat GSK3α only when phosphorylated at serine 21 and does not detect GSK3β phosphorylated at Ser9.

APPLICATIONS

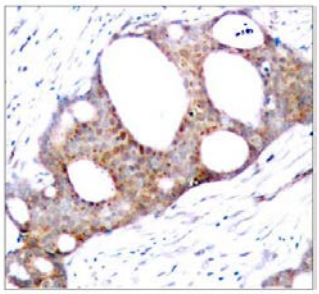
Western blotting: use at dilution of 1:500-1:1,000. A band of ~51kDa is detected.



Detection of GSK3α (Phospho-Ser21) in 293 cell extracts untreated or treated with serum.

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

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



Detection of GSK3α (phospho-Ser21) in paraffin-embedded human breast carcinoma tissue.

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.