GSK3α (phospho-S21) polyclonal antibody

Catalog: BCP00846

Host:

Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Glycogen synthase kinase-3 α and β (GSK-3 α , β) are serine/threonine kinases that regulate metabolic enzymes and transcription factors, which are responsible for coordinating processes such as glycogen synthesis and cell adhesion. GSK-3ß activity is also required for nuclear activity of Rel dimers, which mediate an anti-apoptotic response to TNFα in mice. GSK-3 catalytic kinase activity is controlled through differential phosphorylation of serine/threonine residues, which have an inhibitory effect, and tyrosine residues, which have an activating effect. Growth factor stimulation of mammalian cells expressing GSK-3a and GSK-3\beta induces phosphorylation of Ser 21 and Ser 9, respectively through a phosphatidylinositol 3-kinase (PI 3-kinase)-protein kinase B (PKB) dependent pathway, thereby enhancing proliferative signals. Addi-GSK-3 physically with tionally, associates cAMP-dependent protein kinase A (PKA), which phosphorylates Ser 21 of GSK-3a or Ser 9 of GSK-3ß and inactivates both forms

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 51 kDa

Swiss-Prot:

P49840

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

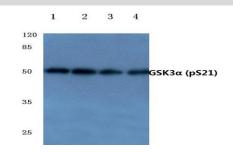
Applications:

WB: 1:500~1:1000 IHC: 1:50~1:200 IP: 1:50~1:200 Storage&Stability: Store at $4 \,^{\circ}{\rm C}$ short term. Aliquot and store at $-20 \,^{\circ}{\rm C}$ long term. Avoid freeze-thaw cycles.

Specificity:

p-GSK3 α (S21) polyclonal antibody detects endogenous levels of GSK3 α protein only when phosphorylated at Ser21.

DATA:



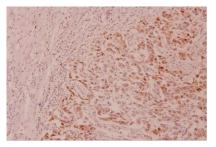
Western blot (WB) analysis of p-GSK3 α (S21) polyclonal antibody at 1:500 dilution

Lane1:HEK293T cell lysate treated with UV

Lane2:Mouse liver tissue lysate

Lane3:Rat liver tissue lysate

Lane4:PC12 cell lysate treated with H2O2



Immunohistochemistry (IHC) analyzes of p-GSK3a (S21) pAb in paraf-

fin-embedded human breast carcinoma tissue at 1:100.

Note:

For research use only, not for use in diagnostic procedure.