GSK3α/β (phospho-Y279/216) polyclonal antibody

Catalog: BS4083 Host: Rabbit Reactivity: Human,Mouse,Rat

BackGround:

Glycogen synthase kinase-3 α and β (GSK-3α, 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-3β 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-3α and GSK-3β 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. Additionally, GSK-3 physically associates with cAMP-dependent protein kinase A (PKA), which phosphorylates Ser 21 of GSK-3α or Ser 9 of GSK-3β and inactivates both forms

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

Molecular Weight:

~ 46,51 kDa

Swiss-Prot:

P49840/P49841

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: 1:500~1:2000

IHC: 1:50~1:200

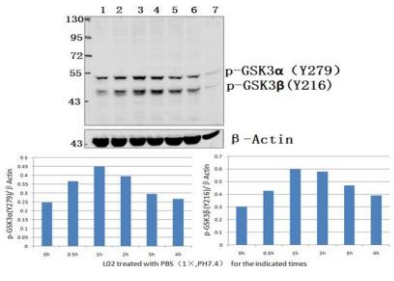
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

p-GSK3α/β (Y279/216) polyclonal antibody detects endogenous levels of GSK3α/β protein only when phosphorylated at Tyr279/216

DATA:



Western blot (WB) analysis of GSK3α/β (phospho-Y279/216) polyclonal antibody at 1:2000 dilution

Lane1:L02 whole cell lysate

Lane2:L02 treated with PBS(1×PBS,PH7.4) for 30min whole cell lysate

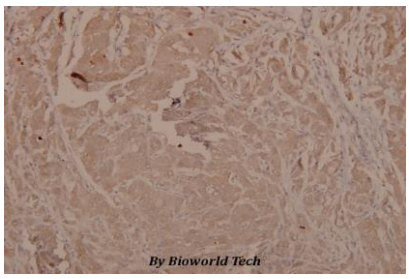
Lane3:L02 treated with PBS(1×PBS,PH7.4) for 60min whole cell lysate

Lane4:L02 treated with PBS(1×PBS,PH7.4) for 120min whole cell lysate

Lane5:L02 treated with PBS(1×PBS,PH7.4) for 180min whole cell lysate

Lane6:L02 treated with PBS(1×PBS,PH7.4) for 240min whole cell lysate

Lane7:C6 whole cell lysate



Immunohistochemistry (IHC) analyzes of p-GSK3α/β (Y279/216) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.

Note:

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

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