GSK3α/β (G273) polyclonal antibody

Catalog: BCP00847 Host: Rabbit Reactivity: Human,Mouse,Rat

BackGround:

Glycogen synthase kinase 3 alpha belongs to the Ser/Thr family of protein kinases, Cdc2/cdkx subfamily; GSK3 subsubfamily. It is implicated in the hormonal control of several regulatory proteins including glycogen synthase, myb, and the transcription factor c jun. GSK3 phosphorylates glycogen synthase and thereby inactivates it. Insulin stimulates the dephosphorylation of glycogen synthase at the sites phosphorylated by GSK3 and subsequently inhibits GSK3 acutely leading to the stimulation of glycogen synthesis. GSK3 signaling is performed by two isoforms, GSK3 alpha and GSK3 beta. The two isoforms share 97% sequence similarity within their catalytic domains. GSK3 has also been shown to play a role in protein synthesis, cell adhesion, cell proliferation, cell differentiation, microtubule dynamics and cell motility.

Product:

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

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: 1:500~1:1000

IHC: 1:50~1:200

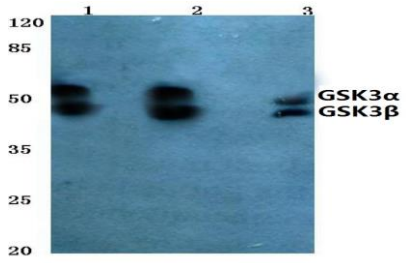
Storage&Stability:

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

Specificity:

GSK3α/β (G273) polyclonal antibody detects endogenous levels of GSK3α/β protein.

DATA:



Western blot (WB) analysis of GSK3α/β (G273) polyclonal antibody at 1:500 dilution

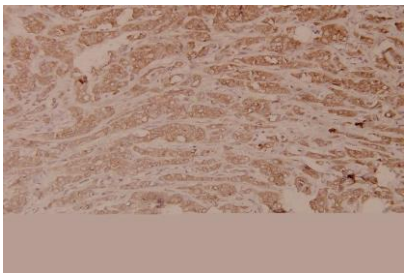
Lane1:HEK293T whole cell lysate(40ug)

Lane2:A549 whole cell lysate(40ug)

Lane3:CT26 whole cell lysate(40ug)

Lane4:C6 whole cell lysate(40ug)

Lane5:The Heart tissue lysate of Rat(10ug)



Immunohistochemistry (IHC) analyzes of GSK3α/β (G273) 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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