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

Catalog: BCP00848

Host:

Rabbit

Reactivity: Human, Mouse, Rat

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## **BackGround:**

Glycogen synthase kinase-3  $\alpha$  and  $\beta$  (GSK-3 $\alpha$ ,  $\beta$ ) 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:

~ 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  $4 \,^{\circ}{\rm C}$  short term. Aliquot and store at  $-20 \,^{\circ}{\rm C}$  long term. Avoid freeze-thaw cycles.

## **Specificity:**

p-GSK3a/ß (Y279/216) polyclonal antibody detects en-

dogenous levels of GSK3 $\alpha/\beta$  protein only when phosphorylated at Tyr279/216

**DATA:** 



Western blot (WB) analysis of GSK3 $\alpha/\beta$  (phospho-Y279/216) polyclonal antibody at 1:2000 dilution

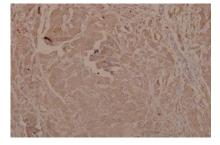
Lane1:L02 whole cell lysate

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-GSK $3\alpha/\beta$  (Y279/216) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.

### Note:

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