

## Phospho-GSK3 alpha/beta (Tyr279/216) Polyclonal Antibody

Catalog No. E-AB-20885

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

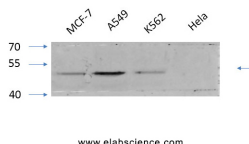
### Description

<b>Reactivity</b>	Human, Mouse, Rat
<b>Immunogen</b>	Synthesized peptide derived from human GSK3 $\alpha/\beta$ around the phosphorylation site of Tyr279/216
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Purification</b>	Affinity purification
<b>Conjugation</b>	Unconjugated
<b>Buffer</b>	PBS with 0.02% sodium azide, 0.5% protective protein and 50% glycerol, pH7.4

### Applications Recommended Dilution

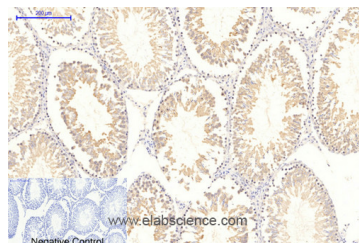
<b>WB</b>	1:500-1:2000
<b>IHC</b>	1:100-1:300
<b>IF</b>	1:50-1:200
<b>ELISA</b>	1:10000-1:20000

### Data

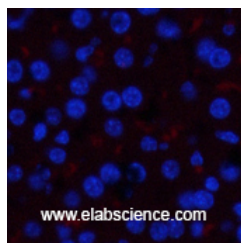


Western Blot analysis of various cells using Phospho-GSK3 alpha/beta (Tyr279/216) Polyclonal Antibody at dilution of 1:1000

**Observed Mw:51,46kDa**  
**Calculated Mw:51kDa**



Immunohistochemistry of paraffin-embedded Rat testis tissue using Phospho-GSK3 alpha/beta (Tyr279/216) Polyclonal Antibody at dilution of 1:200



Immunofluorescence analysis of Mouse liver tissue using Phospho-GSK3 alpha/beta (Tyr279/216) Polyclonal Antibody at dilution of 1:200

### For Research Use Only

## Preparation & Storage

**Storage**                      Store at -20°C. Avoid freeze / thaw cycles.

## Background

Glycogen synthase kinase-3 (GSK-3) was initially identified as an enzyme that regulates glycogen synthesis in response to insulin. GSK-3 is a ubiquitously expressed serine/threonine protein kinase that phosphorylates and inactivates glycogen synthase. GSK-3 is a critical downstream element of the PI3 kinase/Akt cell survival pathway whose activity can be inhibited by Akt-mediated phosphorylation at Ser21 of GSK-3 $\alpha$  and Ser9 of GSK-3 $\beta$ . GSK-3 has been implicated in the regulation of cell fate in Dictyostelium and is a component of the Wnt signaling pathway required for Drosophila, Xenopus and mammalian development. GSK-3 has been shown to regulate cyclin D1 proteolysis and subcellular localization.

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