

## GSK3B

**Reactivity:** Human Mouse Rat

**Tested applications:** WB IHC

**Recommended Dilution:** WB 1:500 - 1:1000 IHC 1:50 - 1:100

**Calculated MW:** 48kDa

**Observed MW:** Refer to Figures

**Immunogen:**

A synthetic peptide of human GSK3B

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Concentration:**

bdimpqt

**Synonym:**

GSK3B; GSK-3;

**Catalog #:** A0479

**Antibody Type:**

Polyclonal Antibody

**Species:** Rabbit

**Gene ID:** 2932

**Isotype:** IgG

**Swiss Prot:** P49841

**Purity:** Affinity purification

For research use only.

**Background:**

Glycogen synthase kinase-3 (GSK-3) was initially identified as an enzyme that regulates glycogen synthesis in response to insulin (1). 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 PI3K/Akt cell survival pathway whose activity can be inhibited by Akt-mediated phosphorylation at Ser21 of GSK-3 and Ser9 of GSK-3 (2,3). 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 (4). GSK-3 has been shown to regulate cyclin D1 proteolysis and subcellular localization (5).

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