

Phospho-GSK3B-S9

Reactivity: Human Rat

Tested applications: WB

Recommended Dilution: WB 1:500 - 1:2000

Calculated MW: 46kDa

Observed MW: Refer to Figures

Immunogen:

A phospho specific peptide corresponding to residues surrounding S9 of human GSK3

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 beta; GSK3B 216P; GSK3A B; gsk3beta

Catalog #: AP0039

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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