

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

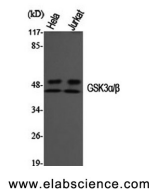
Description

Reactivity	Human,Mouse,Rat
Immunogen	Synthesized peptide derived from human GSK3 α/β around the non-phosphorylation site of Tyr279/216.
Host	Rabbit
Isotype	IgG
Purification	Affinity purification
Conjugation	Unconjugated
Formulation	PBS with 0.02% sodium azide, 0.5% protective protein and 50% glycerol, pH7.4

Applications Recommended Dilution

WB	1:500-1:2000
IHC	1:100-1:300
ELISA	1:20000

Data



Western Blot analysis of HeLa, Jurkat cells using GSK3 alpha/beta Polyclonal Antibody at dilution of 1:1000.

Observed Mw:51,46kDa

Calculated Mw:51kDa

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 α and Ser9 of GSK-3 β . 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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