

Product Data Sheet: Phospho-GSK3ß (S9)

Cat. No: MAB-94624
Conjugate: Unconjugated

Size: 100 ug
Clone: 5B3
Concentration: 1mg/ml
Host: Rb
Isotype: IgG

Reactivity: Hu, Ms, Rt

Applications: Western blotting 1:1000 [Immunohistochemistry 1:100 [Immunofluorescence (IF-

IC) 1:200

Molecular Weight: 46 kDa

Purification:Monoclonal antibody is produced by immunizing animals with a synthetic

phosphopeptide corresponding to residues surrounding Ser9 of human GSK-3beta

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 phosphory-lates 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

Background: phosphorylation at Ser21 of GSK-3a and Ser9 of GSK-3beta (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).Phospho-GSK-3beta (Ser9) (5B3) Rabbit mAb detects endogenous levels of GSK-3beta only when phosphorylated at Ser9. This antibody

reacts with denatured components of bovine serum, including BSA.

Form: liquid

Buffer: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50%

glycerol and less than 0.02% sodium azide.

Storage: Storage: at 4-8 °C for short term, at -20°C for longer term.