Product Datasheet

GSK3B antibody

Catalog No: #38353

Package Size: #38353-1 50ul #38353-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

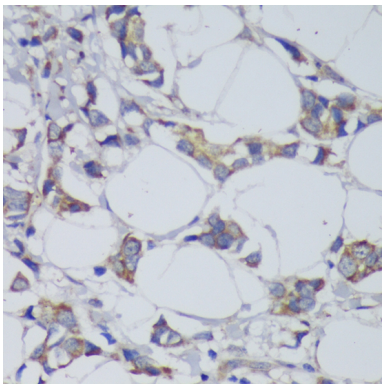
Description

Product Name	GSK3B antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IHC,IF
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total GSK3B protein.
Immunogen Type	Peptide
Immunogen Description	A synthetic peptide of human GSK3B.
Target Name	GSK3B
Other Names	GSK3B; GSK3β;
Accession No.	Swiss-Prot#: P49841 NCBI Gene ID: 2932
Uniprot	P49841
GeneID	2932;
SDS-PAGE MW	48kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

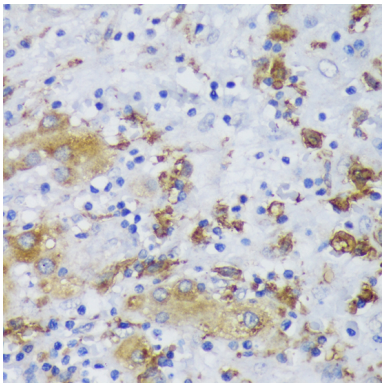
Application Details

WB□1:500 - 1:2000IHC□1:50 - 1:200IF□1:50 - 1:200IP□1:50 - 1:200

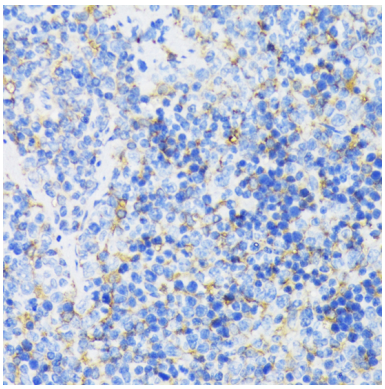
Images



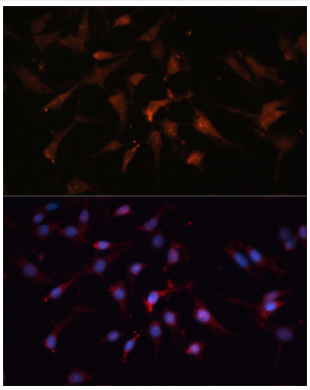
Immunohistochemistry of paraffin-embedded human mammary cancer using GSK3B at dilution of 1:200 (40x lens).



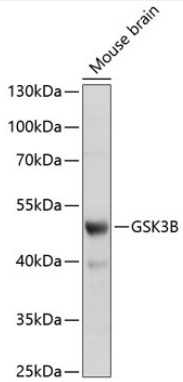
Immunohistochemistry of paraffin-embedded human liver cancer using GSK3B at dilution of 1:200 (40x lens).



Immunohistochemistry of paraffin-embedded mouse spleen using GSK3B at dilution of 1:200 (40x lens).



Immunofluorescence analysis of C6 cells using GSK3B at dilution of 1:100. Blue: DAPI for nuclear staining.



Western blot analysis of extracts of mouse brain, using GSK3B at 1:1000 dilution.

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-3α and Ser9 of GSK-3β (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).

Note: This product is for in vitro research use only