

GSK3 beta Rabbit mAb

Catalog No: #48798



Package Size: #48798-1 50ul #48798-2 100ul

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

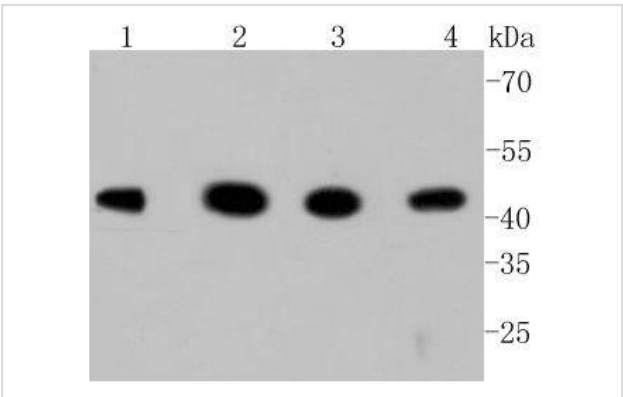
Description

Product Name	GSK3 beta Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SY28-03
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, FC
Species Reactivity	Human;Mouse
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	Glycogen Synthase Kinase 3 Beta antibody Glycogen synthase kinase-3 beta antibody GSK 3 beta antibody GSK-3 beta antibody GSK3B antibody GSK3B_HUMAN antibody GSK3beta isoform antibody Serine/threonine-protein kinase GSK3B antibody
Accession No.	Swiss-Prot#:P49841
Calculated MW	46 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

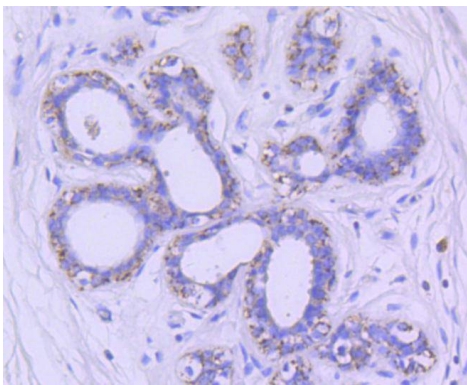
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

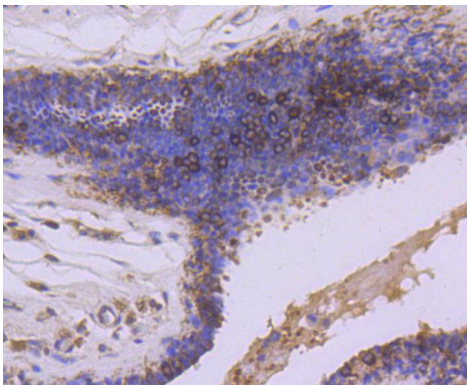
Images



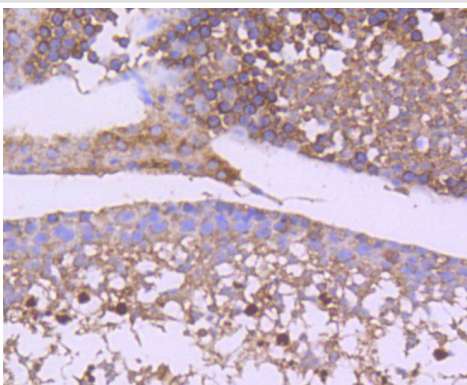
Western blot analysis of GSK3 beta on different lysates using anti-GSK3 beta antibody at 1/1,000 dilution. Positive control:
Lane 1: Hela Lane 2: 293 Lane 3: NIH/3T3
Lane 4: PC12



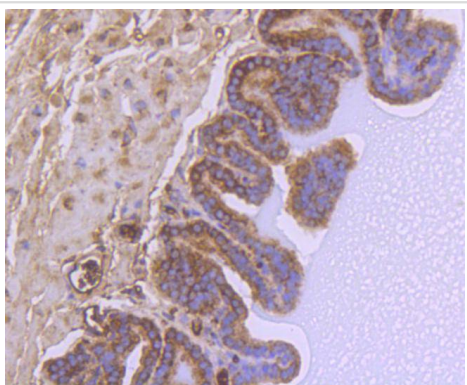
Immunohistochemical analysis of paraffin-embedded human breast tissue using anti-GSK3 beta antibody. Counter stained with hematoxylin.



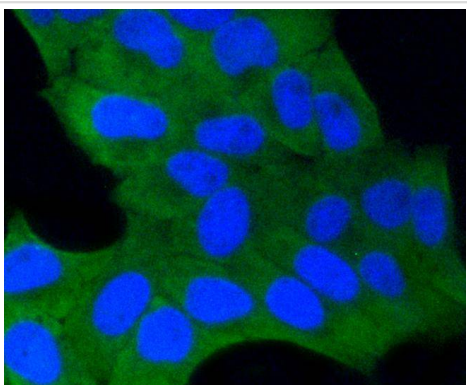
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-GSK3 beta antibody. Counter stained with hematoxylin.



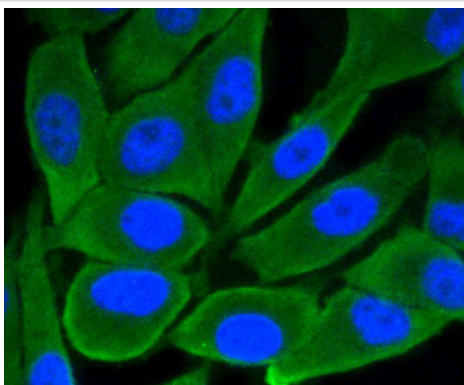
Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-GSK3 beta antibody. Counter stained with hematoxylin.



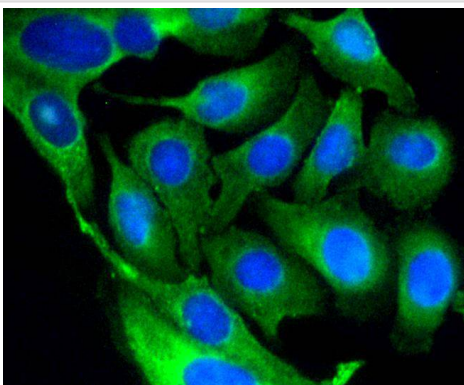
Immunohistochemical analysis of paraffin-embedded mouse prostate tissue using anti-GSK3 beta antibody. Counter stained with hematoxylin.



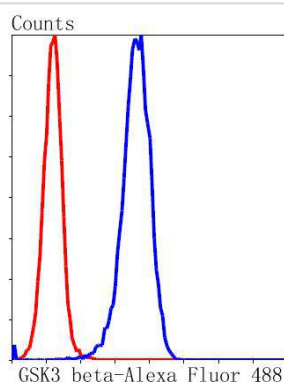
ICC staining GSK3 beta in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining GSK3 beta in PC-3M cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining GSK3 beta in SKOV-3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Hela cells with GSK3 beta antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

Glycogen synthase kinase 3, or GSK-3, is a serine/threonine, proline-directed kinase involved in a diverse array of signaling pathways, including glycogen synthesis and cellular adhesion, and has been implicated in Alzheimer's disease. Two forms of GSK-3, designated GSK-3 α and GSK-3 β , have been identified and differ in their subcellular localization. Tau, a microtubule-binding protein which serves to stabilize microtubules in growing axons, is found to be hyper-phosphorylated in paired helical filaments (PHF), the major fibrous component of neurofibrillary lesions associated with Alzheimer's disease. Hyperphosphorylation of Tau is thought to be the critical event leading to the assembly of PHF. Six Tau protein isoforms have been identified, all of which are phosphorylated by GSK-3. This presents the possibility that miscues in GSK-3 signaling contribute to the onset of Alzheimer's disease.

References

1. Das I et al. Heat Shock Protein 90 Positively Regulates Chikungunya Virus Replication by Stabilizing Viral Non-Structural Protein nsP2 during Infection. PLoS One 9:e100531 (2014).
2. Gao B et al. Dose-Dependent Effect of Estrogen Suppresses the Osteo-Adipogenic Transdifferentiation of Osteoblasts via Canonical Wnt Signaling Pathway. PLoS One 9:e99137 (2014).

Published Papers

Shina Lu;Xiaojuan Peng;Gang Lin;Kang Xu;Shanghong Wang;Weihua Qiu;Hailing Du;Kaile Chang;Yangfeng Lv;Yapeng Liu;Hang Deng;Chengyu

Hu;Xiaowen Xu et al., Grass carp (*Ctenopharyngodon idellus*) SHP2 suppresses IFN I expression via decreasing the phosphorylation of GSK3 beta in a non-contact manner, , (2021)

[PMID:34265416](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.