GSK3 beta Rabbit mAb

Catalog No: #48798

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



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

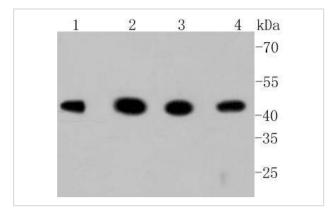
Description

GSK3 beta Rabbit mAb
Recombinant Rabbit
Monoclonal antibody
SY28-03
ProA affinity purified
WB, ICC/IF, IHC, FC
Human;Mouse
recombinant protein
Unconjugated
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
Swiss-Prot#:P49841
46 kDa
1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
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

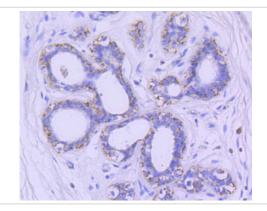


Western blot analysis of GSK3 beta on different lysates using anti-GSK3 beta antibody at 1/1,000 dilution. Positive control:

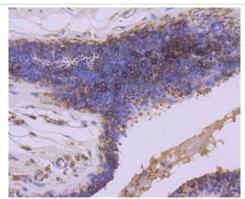
Lane 1: Hela

Lane 2: 293 Lane 3: NIH/3T3

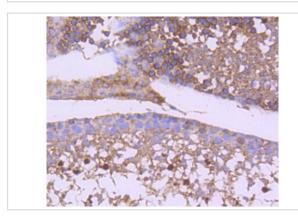
Lane 4: PC12



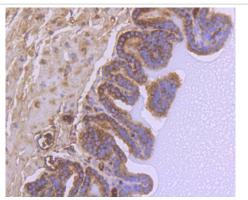
Immunohistochemical analysis of paraffin-embedded human breast tissue using anti-GSK3 beta antibody. Counter stained with hematoxylin.



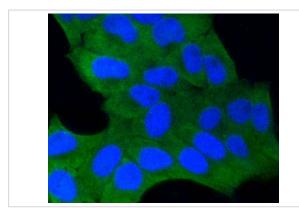
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-GSK3 beta antibody. Counter stained with hematoxylin.



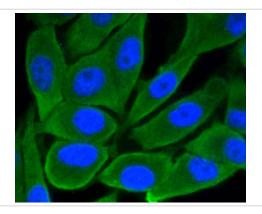
Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-GSK3 beta antibody. Counter stained with hematoxylin.



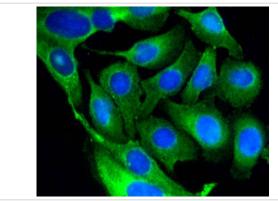
Immunohistochemical analysis of paraffin-embedded mouse prostate tissue using anti-GSK3 beta antibody. Counter stained with hematoxylin.



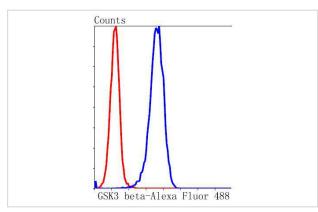
ICC staining GSK3 beta in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



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 Alzheimero $\Omega\frac{1}{2}$ o $\Omega\frac{1}{2}$ s disease. Two forms of GSK-3, designated GSK-3 α and GSK-3 α , 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 Alzheimero $\Omega\frac{1}{2}$ o $\Omega\frac{1}{2}$ 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 Alzheimero $\Omega\frac{1}{2}$ o $\Omega\frac{1}{2}$ 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;Xiaojue Peng;Gang Lin;Kang Xu;Shanghong Wang;Weihua Qiu;Hailing Du;Kaile Chang;Yangfeng Lv;Yapeng Liu;Hang Deng;Chengyu

Hu;Xiaowen Xu el at., 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.