

GSK3 β Rabbit monoclonal antibody

Catalog: BS9912M

Host: Rabbit

Reactivity: Human, Mouse

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.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 46 kDa

Swiss-Prot:

P49841

Purification&Purity:

Protein A affinity purified

Applications:

WB: 1:1000-1:2000

IHC/ICC/IF: 1:50-1:200

FC: 1:50-1:100

Storage&Stability:

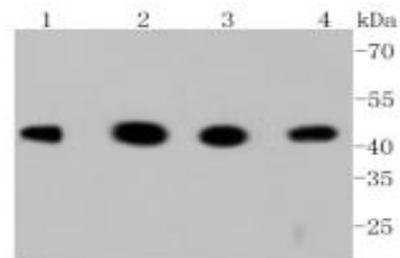
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

This antibody detects endogenous levels of GSK3 β and

does not cross-react with related proteins.

DATA:



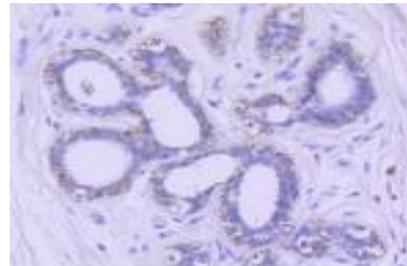
Western blot (WB) analysis of GSK3 β Rabbit mAb at 1:1000 dilution

Lane1:HeLa whole cell lysate

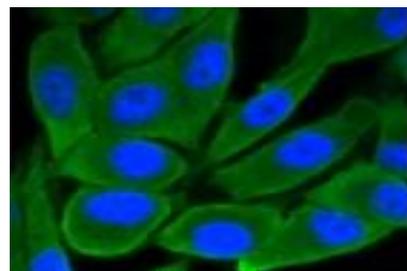
Lane2:293 whole cell lysate

Lane3:NIH/3T3 whole cell lysate

Lane4:PC12 whole cell lysate



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



ICC staining GSK3 β in PC-3M cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.

Note:

For research use only, not for use in diagnostic procedure.

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