

GSK3 β (phospho-S9) polyclonal antibody

Catalog: BS4084

Host: Rabbit

Reactivity: Human, Mouse, Rat

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:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

IP: 1:50~1:200

IF: 1:100~1:500

Storage&Stability:

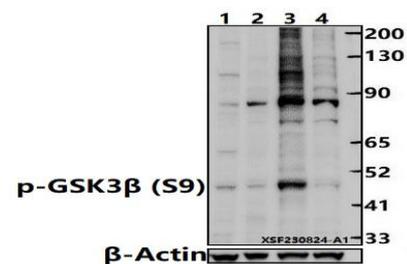
Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

Specificity:

p-GSK3 β (S9) polyclonal antibody detects endogenous levels of GSK3 β protein only when phosphorylated at Ser9.

DATA:



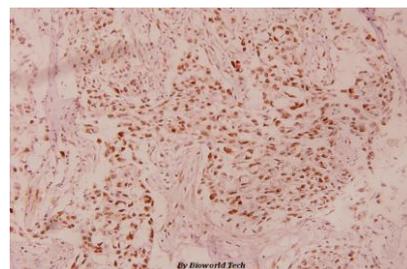
Western blot (WB) analysis of GSK3 β (phospho-Ser9) pAb at 1:500 dilution

Lane1:PMVEC whole cell lysate(30ug)

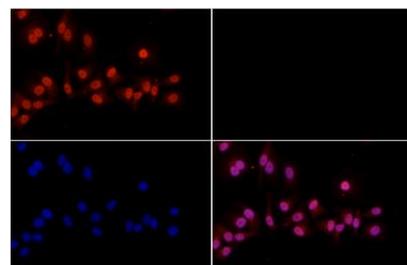
Lane2:HepG2 whole cell lysate(30ug)

Lane3:HEK293T treated with Calyculin A(50 nM,30 minutes) whole cell lysate(30ug)

Lane4:HEK293T whole cell lysate(30ug)



Immunohistochemistry (IHC) analyzes of p-GSK3b (S9) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.



Bioworld Technology, Inc.

Add: 1660 South Highway 100, Suite 500 St. Louis Park, MN 55416, USA.

Email: info@bioworld.com

Tel: 6123263284

Fax: 6122933841

Bioworld technology, co. Ltd.

Add: No 9, weidi road Qixia District Nanjing, 210046, P. R. China.

Email: info@biogol.com

Tel: 0086-025-68037686

Fax: 0086-025-68035151



PRODUCT DATA SHEET

Bioworld Technology, Inc.

Immunofluorescence analysis of HepG2 cells using GSK3 β (phospho-S9) pAb at dilution of 1:200 (40x lens).

Note:

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

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MN 55416, USA.

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