

Phospho-GSK3β-S9 Rabbit pAb

Catalog No.: AP0039SP

60 Publications

Basic Information

Observed MW

46 kDa

Calculated MW

47 kDa/48 kDa

Category

Primary antibody

Applications

WB, IF/ICC, ELISA

Cross-Reactivity

Human, Mouse, Rat

Background

The protein encoded by this gene is a serine-threonine kinase belonging to the glycogen synthase kinase subfamily. It is a negative regulator of glucose homeostasis and is involved in energy metabolism, inflammation, ER-stress, mitochondrial dysfunction, and apoptotic pathways. Defects in this gene have been associated with Parkinson disease and Alzheimer disease.

Recommended Dilutions

WB 1:3000 - 1:10000

IF/ICC 1:200 - 1:1200

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)

Immunogen Information

Gene ID

2932

Swiss Prot

P49841

Immunogen

This information is considered to be commercially sensitive.

Synonyms

GSK3B; gsk-3β; Phospho-GSK3β-S9

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

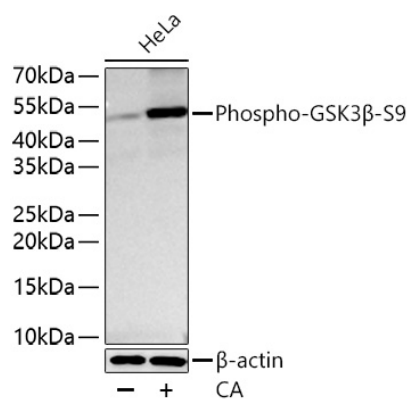
Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide.

May contain 0.05% BSA as specified on the Certificate of Analysis.

Validation Data



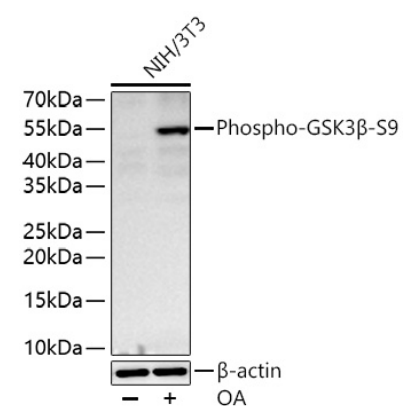
Western blot analysis of lysates from HeLa cells using Phospho-GSK3 β -S9 Rabbit pAb (AP0039SP) at 1:5000 dilution incubated overnight at 4°C. HeLa cells were treated with CA (100 nM) at 37°C for 1 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 30 μ g per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 45 s.



Western blot analysis of lysates from NIH/3T3 cells using Phospho-GSK3 β -S9 Rabbit pAb (AP0039SP) at 1:5000 dilution incubated overnight at 4°C. NIH/3T3 cells were treated with OA (200 nM) at 37°C for 1 hours.

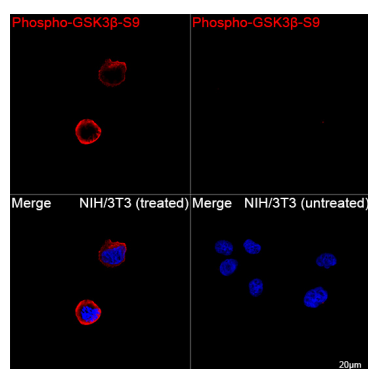
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 30 μ g per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 45 s.



Confocal imaging of NIH/3T3 cells (treated with OA) and NIH/3T3 cells (untreated) using Phospho-GSK3 β -S9 Rabbit pAb (AP0039SP, dilution 1:1000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.