

# Phospho-GSK3β-S9 Rabbit pAb

Catalog No.: AP0039

39 Publications

## Basic Information

### Observed MW

46 kDa

### Calculated MW

47kDa

### Category

Primary antibody

### Applications

WB,IHC-P,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** 1:100 - 1:500

**IHC-P** 1:50 - 1:200

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

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

2932

### Swiss Prot

P49841

### Immunogen

A synthetic phosphorylated peptide around S9 of human GSK3β (NP\_001139628.1).

### Synonyms

GSK3B; gsk-3β; Phospho-GSK3β-S9

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

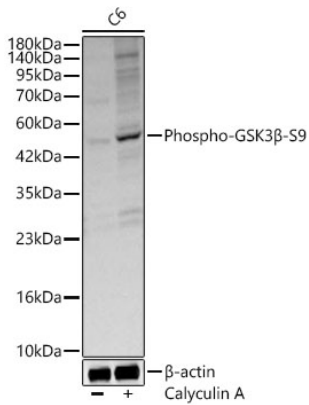
Affinity purification

### Storage

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

Buffer: PBS with 0.09% Sodium azide,50% glycerol,pH7.3.

## Validation Data



Western blot analysis of lysates from C6 cells using Phospho-GSK3 $\beta$ -S9 Rabbit pAb (AP0039) at 1:500 dilution. C6 cells were treated by Calyculin A (100 nM) at 37°C for 30 minutes after serum-starvation overnight.

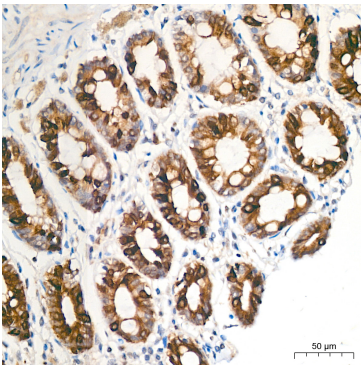
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25  $\mu$ g per lane.

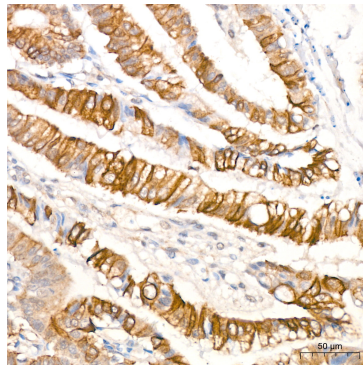
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

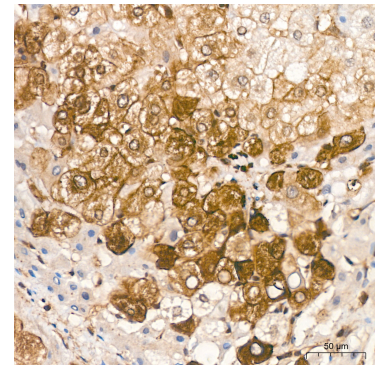
Exposure time: 10s.



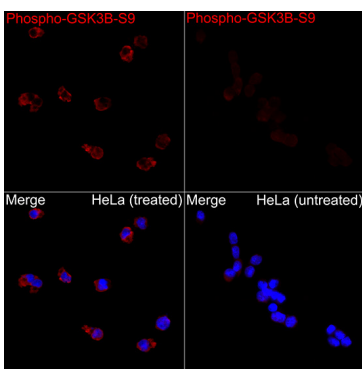
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using Phospho-GSK3 $\beta$ -S9 Rabbit pAb (AP0039) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



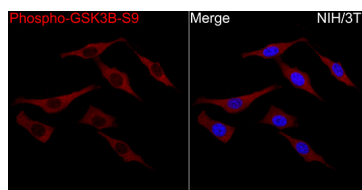
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using Phospho-GSK3 $\beta$ -S9 Rabbit pAb (AP0039) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



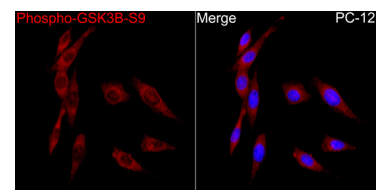
Immunohistochemistry analysis of paraffin-embedded Human liver cancer tissue using Phospho-GSK3 $\beta$ -S9 Rabbit pAb (AP0039) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunofluorescence analysis of HeLa CA and HeLa cells using Phospho-GSK3 $\beta$ -S9 Rabbit pAb(AP0039) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L)(AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH/3T3 cells using Phospho-GSK3 $\beta$ -S9 Rabbit pAb(AP0039) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L)(AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of PC-12 cells using Phospho-GSK3 $\beta$ -S9 Rabbit pAb(AP0039) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L)(AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.