

# Phospho-GSK3 $\alpha$ -S21 Rabbit pAb

Catalog No.: AP0582

1 Publications

## Basic Information

### Observed MW

51kDa

### Calculated MW

51kDa

### Category

Primary antibody

### Applications

WB, IP, ELISA

### Cross-Reactivity

Human

## Background

This gene encodes a multifunctional Ser/Thr protein kinase that is implicated in the control of several regulatory proteins including glycogen synthase, and transcription factors, such as JUN. It also plays a role in the WNT and PI3K signaling pathways, as well as regulates the production of beta-amyloid peptides associated with Alzheimer's disease.

## Recommended Dilutions

**WB** 1:500 - 1:2000

**IP** 0.5 $\mu$ g-4 $\mu$ g antibody for  
200 $\mu$ g-400 $\mu$ g extracts of  
whole cells

**ELISA** Recommended starting  
concentration is 1  $\mu$ g/mL.  
Please optimize the  
concentration based on  
your specific assay  
requirements.

## Immunogen Information

### Gene ID

2931

### Swiss Prot

P49840

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

GSK3 alpha; GSK3A; Phospho-GSK3 $\alpha$ -S21

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

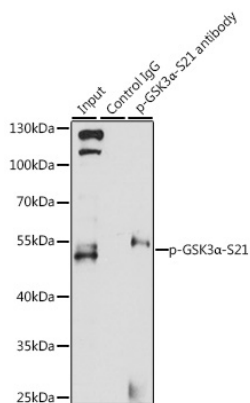
Affinity purification

### Storage

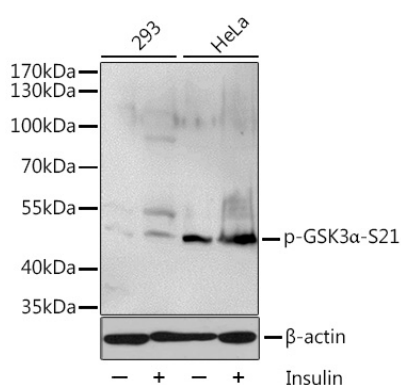
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

## Validation Data



Immunoprecipitation analysis of 200 µg extracts of 293T cells, using 3 µg Phospho-GSK3α-S21 pAb (AP0582). Western blot was performed from the immunoprecipitate using Phospho-GSK3α-S21 pAb (AP0582) at a dilution of 1:1000. 293T cells were treated with Insulin (100 nM) at 37°C for 10 minutes after serum-starvation overnight.

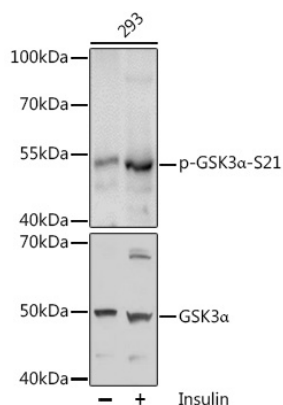


Western blot analysis of lysates from 293 and HeLa cells, using Phospho-GSK3α-S21 Rabbit pAb (AP0582) at 1:1000 dilution. 293 cells were treated with Insulin (100nM) for 10 minutes after serum-starvation overnight. HeLa cells were treated with Insulin (0.01U/mL) for 15 minutes after serum-starvation overnight.

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

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% BSA.



Western blot analysis of lysates from 293 cells, using Phospho-GSK3α-S21 Rabbit pAb (AP0582) at 1:1000 dilution or GSK3α antibody (A0645). 293 cells were treated with Insulin (100nM) for 10 minutes after serum-starvation overnight.

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

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% BSA.