

For Research Use Only

# Phospho-GSK3B (Ser389) Polyclonal antibody

Catalog Number: 14850-1-AP

43 Publications



## Basic Information

Catalog Number:

14850-1-AP

Size:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC060743

GeneID (NCBI):

56637

UNIPROT ID:

Q9WV60

Full Name:

glycogen synthase kinase 3 beta

Calculated MW:

48 kDa

Observed MW:

46-50 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

## Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB, IF

Species Specificity:

mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

WB : Calyculin A treated NIH/3T3 cells,

## Background Information

Glycogen synthase kinase 3s are serine/threonine kinases that were originally identified as key regulatory enzymes in glucose metabolism. There are two isoforms, GSK3 $\alpha$  and GSK3 $\beta$ , encoded by separate genes, which are overall 85% homologous to each other, with 95% identity in the kinase domains. To date, phosphorylation at Ser9 by Akt is the best-characterized mechanism for the inhibition of GSK3 $\beta$  activity. GSK3 $\beta$  is phosphorylated at S389 in vivo by p38 MAPK and that this alternative regulatory mechanism of GSK3 $\beta$  is tissue-specific (PMID:18451303).

## Notable Publications

Author	Pubmed ID	Journal	Application
Hui Zhang	32946868	Eur J Pharmacol	WB
Jin Wu	34687945	J Genet Genomics	WB
Rui Wang	29030155	J Steroid Biochem Mol Biol	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

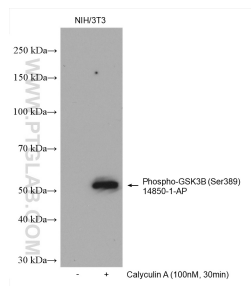
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E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

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## Selected Validation Data



Non-treated and Calyculin A treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 14850-1-AP (Phospho-GSK3B (Ser389) antibody) at dilution of 1:2000 incubated at room temperature for 1 hours.