

For Research Use Only

# GSK3B Polyclonal antibody

Catalog Number: 22104-1-AP

Featured Product

370 Publications



## Basic Information

### Catalog Number:

22104-1-AP

### Size:

150ul, Concentration: 300 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG17320

### GenBank Accession Number:

BC000251

### GeneID (NCBI):

2932

### UNIPROT ID:

P49841

### Full Name:

glycogen synthase kinase 3 beta

### Calculated MW:

433 aa, 48 kDa

### Observed MW:

46-48 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:8000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:100-1:400

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP, RIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, pig, chicken, zebrafish, bovine, hamster

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB** : HeLa cells, A549 cells, mouse brain tissue, mouse kidney tissue, mouse ovary tissue, LNCaP cells, mouse testis tissue, rat brain tissue, PC-3 cells, mouse thymus tissue, rat thymus tissue

**IP** : mouse brain tissue,

**IHC** : human lung cancer tissue, human prostate hyperplasia tissue, human testis tissue, rat colon tissue

**IF/ICC** : MCF-7 cells,

## Background Information

Glycogen synthase kinase-3 (GSK3) is a proline-directed serine-threonine kinase that was initially identified as a phosphorylating and inactivating glycogen synthase. GSK3B is involved in energy metabolism, neuronal cell development, and body pattern formation. In skeletal muscle, it contributes to INS regulation of glycogen synthesis by phosphorylating and inhibiting GYS1 activity and hence glycogen synthesis. Researches showed that the crystal structure of human GSK3B, expressed in insect cells, at 2.8-angstrom resolution. This antibody recognizes the C-terminal of GSK3B.

## Notable Publications

Author	Pubmed ID	Journal	Application
Silin Liu	34591063	Genet Mol Biol	WB
Ke-Xin Wang	34649212	Phytomedicine	WB
Yi Yang	30356420	Mediators Inflamm	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

\*\*\* 20ul sizes contain 0.1% BSA

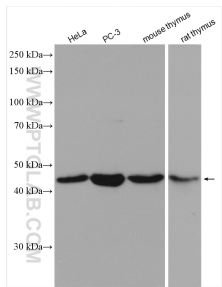
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

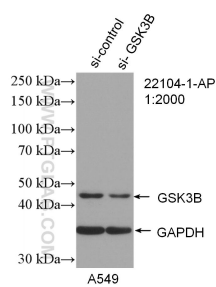
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

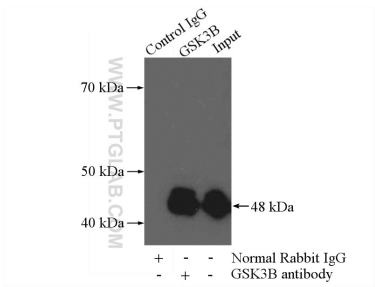
Selected Validation Data



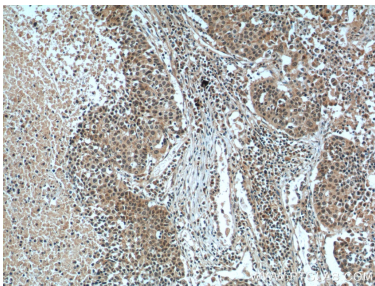
Various lysates were subjected to SDS PAGE followed by western blot with 22104-1-AP (GSK3B antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



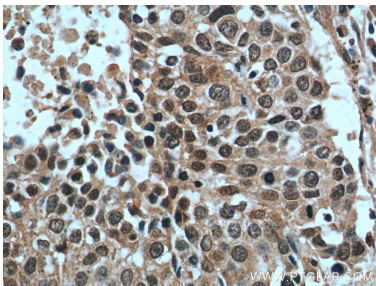
WB result of GSK3B antibody (22104-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GSK3B transfected A549 cells.



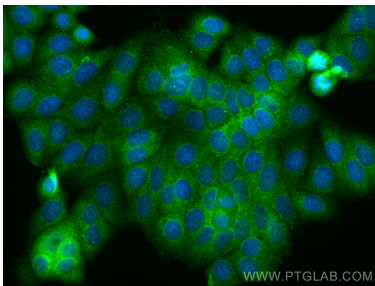
IP result of anti-GSK3B (IP:22104-1-AP, 4ug; Detection:22104-1-AP 1:1000) with mouse brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 22104-1-AP (GSK3B Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 22104-1-AP (GSK3B Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using GSK3B antibody (22104-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).