For Research Use Only

GSK3B Polyclonal antibody

Catalog Number:22104-1-AP Featured Product 308 Publications

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Basic Information

Catalog Number:
22104-1-AP

Size:
300 μg/ml

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 1:200-1:800

Applications

Tested Applications:
IF/ICC, IHC, IP, WB, ELISA

Cited Applications:
CoIP, IF, IHC, IP, RIP, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, chicken, rat, mouse, zebrafish, hamster, pig

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 : 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 recognize the C-terminal of GSK3B.

Notable Publications

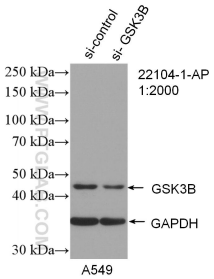
Author	Pubmed ID	Journal	Application
Silin Liu	34591063	Genet Mol Biol	WB
Ke-Xin Wang	34649212	Phytomedicine	WB
Yi Yang	30356420	Mediators Inflamm	WB

Storage

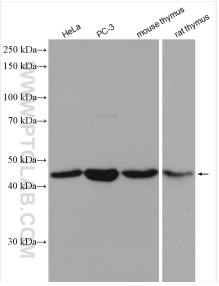
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

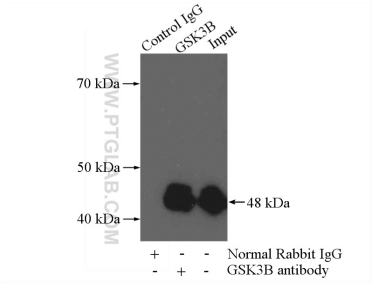
Selected Validation Data



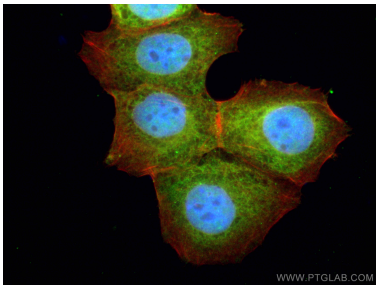
WB result of GSK3B antibody (22104-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GSK3B transfected A549 cells.



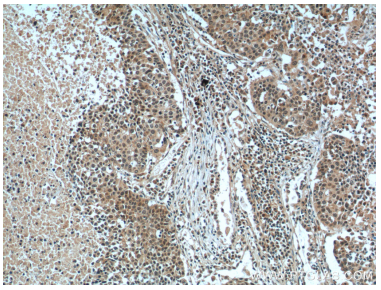
Various lysates were subjected to SDS PAGE followed by western blot with 22104-1-AP (GSK3B antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



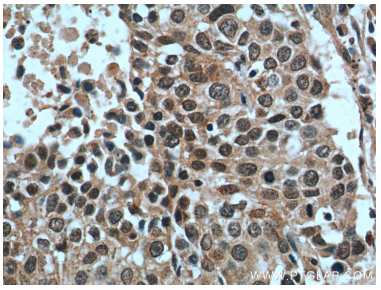
IP result of anti-GSK3B (IP:22104-1-AP, 4ug; Detection:22104-1-AP 1:1000) with mouse brain tissue lysate 4000ug.



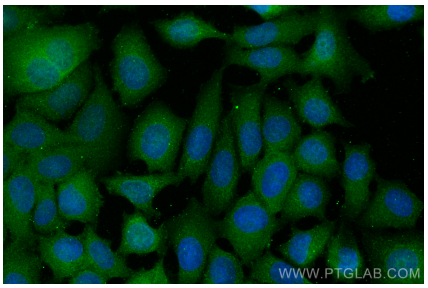
Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using GSK3B antibody (22104-1-AP) at dilution of 1:2000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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 AffiniPure Goat Anti-Rabbit IgG(H+L).