

For Research Use Only

GSK3B Polyclonal antibody

Catalog Number: 15113-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number:

15113-1-AP

Size:

150ul, Concentration: 200 µg/ml by Nanodrop and 200 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7101

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:

55-60 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

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

IHC 1:20-1:200

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, mouse

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 : mouse ovary tissue, HEK-293 cells, HeLa cells, A549 cells

IP : mouse heart tissue,

IHC : human testis tissue,

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 2 isoforms of GSK3B.

Notable Publications

Author	Pubmed ID	Journal	Application
Meizhong Peng	36237833	Int J Endocrinol	WB
Xichun Qin	34688627	Microvasc Res	WB
Jun-Liang Pu	34024736	Hepatobiliary Pancreat Dis Int	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

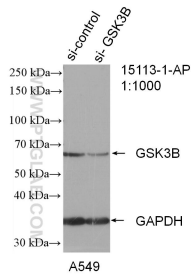
For technical support and original validation data for this product please contact:

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

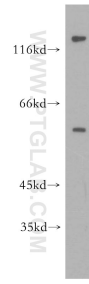
E: proteintech@ptglab.com
W: ptglab.com

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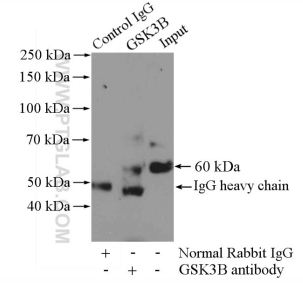
Selected Validation Data



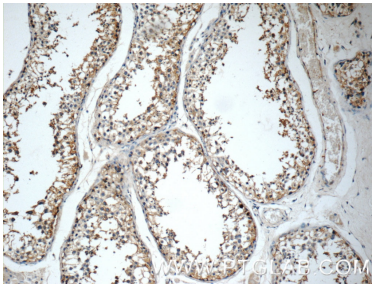
WB result of GSK3B antibody (15113-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GSK3B transfected A549 cells.



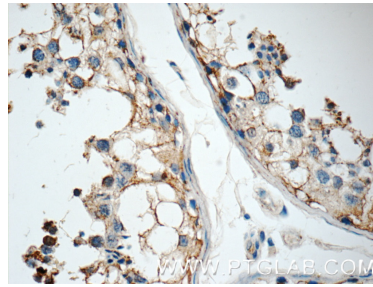
mouse ovary tissue were subjected to SDS PAGE followed by western blot with 15113-1-AP (GSK3B antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



IP result of anti-GSK3B (IP:15113-1-AP, 4ug; Detection:15113-1-AP 1:500) with mouse heart tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 15113-1-AP (GSK3B Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 15113-1-AP (GSK3B Antibody) at dilution of 1:50 (under 40x lens).