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**Product Name: Phospho-GSK3 $\beta$  (Ser9) Rabbit Polyclonal Antibody****Catalog #: APRab04753**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ICC/IF,ELISA
<b>Reactivity</b>	Human,Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Phosphorylated
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000
<b>Molecular Weight</b>	47kDa

**Antigen Information**

<b>Gene Name</b>	GSK3B
<b>Alternative Names</b>	GSK3B; Glycogen synthase kinase-3 beta; GSK-3 beta; Serine/threonine-protein kinase GSK3B
<b>Gene ID</b>	2932.0
<b>SwissProt ID</b>	P49841
<b>Immunogen</b>	Synthesized phospho-peptide around the phosphorylation site of human GSK3 $\beta$ (phospho Ser9)

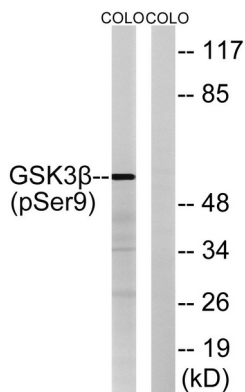
**Background**

The protein encoded by this gene is a serine-threonine kinase, belonging to the glycogen synthase kinase subfamily. It is involved in energy metabolism, neuronal cell development, and body pattern formation. Polymorphisms in this gene have been implicated in modifying risk of Parkinson disease, and studies in mice show that overexpression of this gene may be relevant to the pathogenesis of Alzheimer disease. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009],catalytic activity:ATP + [tau protein] = ADP + [tau protein] phosphate.,enzyme regulation:Inhibited when phosphorylated by AKT1.,function:Participates in the Wnt signaling pathway. Implicated in the hormonal control of several regulatory proteins including glycogen synthase, MYB and the transcription factor JUN. Phosphorylates JUN at sites proximal to its DNA-binding domain, thereby reducing its affinity for DNA. Phosphorylates MUC1 in breast cancer cells, and decreases the interaction of MUC1 with CTNNB1/beta-catenin.,PTM:Phosphorylated by AKT1 and ILK1.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. GSK-3 subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Monomer (By similarity). Interacts with CABYR, MUC1, NIN and PRUNE.,tissue specificity:Expressed in testis, thymus, prostate and ovary and weakly expressed in lung, brain and kidney.,

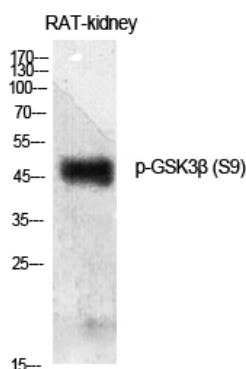
## Research Area

ErbB\_HER;Chemokine;Cell\_Cycle\_G1S;Cell\_Cycle\_G2M\_DNA;WNT;WNT-T CELLHedgehog;Axon guidance;Focal adhesion;T\_Cell\_Receptor;B\_Cell\_Antigen;Neurotrophin;Insulin\_Receptor;Melanogenesis;Alzheimer's disease;Pathways in cancer;Colorectal cancer;Endometrial cancer;Prostate cancer;Basal cell carcinoma;

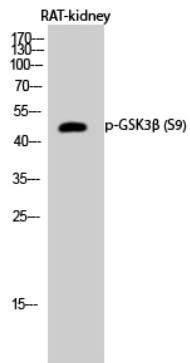
## Image Data



Western blot analysis of GSK3 $\beta$  (Phospho-Ser9) Antibody. The lane on the right is blocked with the GSK3 $\beta$  (Phospho-Ser9) peptide.



Western Blot analysis of various cells using Phospho-GSK3 $\beta$  (S9) Polyclonal Antibody diluted at 1 : 500



Western Blot analysis of RAT-kidney cells using Phospho-GSK3 $\beta$  (S9) Polyclonal Antibody diluted at 1 : 500