GSK3β (Phospho Ser9) (PT0078R) PT™ Rabbit mAb

CatalogNo: YM8041 Recombinant

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,ELISA

MW
- 46kD (Calculated)

46kD (Observed)

Isotype
- IgG, Kappa

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Recommended Dilution Ratios

IHC 1:200-1000
WB 1:1000-5000
IF 1:200-1000
ELISA 1:5000-20000

Basic Information

Clonality	Monoclonal
Clone Number	PT0078R

Immunogen Information

Immunogen	The specific immunogen used to produce this antibody is proprietary information.
Specificity	This antibody detects endogenous levels of GSK3β only when phosphorylated at Ser9.This antibody does not recognize phosphorylated at other sites.

Target Information

Gene name GSK3B

Protein Name Glycogen synthase kinase-3 beta

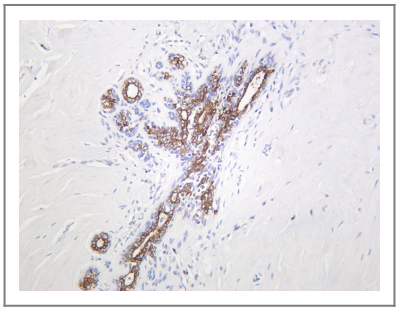
Organism	Gene ID	UniProt ID
Human	2932;	P49841;
Mouse	56637;	Q9WV60;
Rat	84027;	P18266;

Cellular Localization Cytoplasmic , Membranous

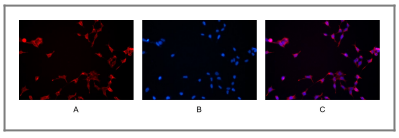
Tissue specificity Expressed in testis , thymus , prostate and ovary and weakly expressed in lung , brain and kidney. Colocalizes with EIF2AK2/PKR and TAU in the Alzheimer disease (AD) brain.

Function 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. ,

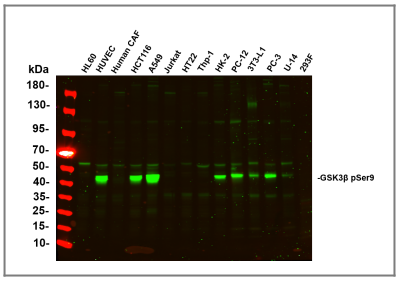
Validation Data



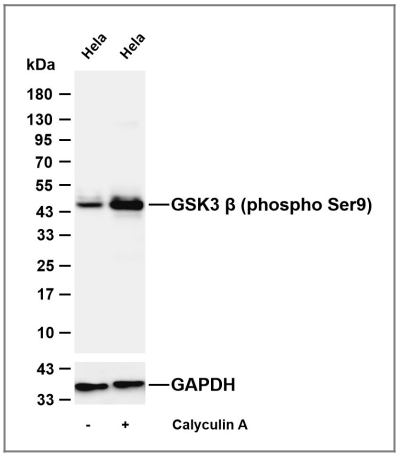
Human breast carcinoma was stained with Anti-GSK3 β (phospho Ser9) rabbit antibody



Immunofluorescence analysis of HEK293. Picture A: GSK3 β (Phospho Ser9) antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4℃ over night with a 1:2500 dilution . The Dilight 800-conjugated Goat anti-Rabbit antibody (Cat:RS23920) was used to detect the antibody. Lane1: HL60 - Human promyelocytic leukemia cell Lane2: HUVEC - Human umbilical vein endothelial cell Lane3: Human CAF - Human cancer-associated fibroblast Lane4: HCT116 - Human colorectal carcinoma Lane5: A549 - Human lung carcinoma Lane6: Jurkat - Human T lymphocyte leukemia Lane7: HT22 - Mouse hippocampal neuronal Lane8: Thp-1 - Human monocytic leukemia Lane9: HK-2 - Human proximal tubular epithelial Lane10: PC-12 - Rat adrenal pheochromocytoma Lane11: 3T3-L1 - Mouse embryonic fibroblast Lane12: PC-3 - Human prostate adenocarcinoma Lane13: U-14 - Mouse cervical carcinoma Lane14: 293F - HEK293 derivative, adapted for suspension culture Predicted band size: 46kDa Observed band size: 46kDa



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-GSK3 β (phospho Ser9) (PT0078R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: Hela Lane 2: Hela starved of serum overnight and then treated with 20% fetal bovine serum and Calyculin A (100 nM) for 15 minutes Predicted band size: 46kDa Observed band size: 46kDa

Contact information

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Please scan the QR code to access additional product information: **GSK3β (Phospho Ser9) (PT0078R) PT™ Rabbit mAb**

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