

## GSK3 $\beta$ (Phospho Ser9) (6H6) Mouse mAb

CatalogNo: YP1886

### Key Features

#### Host Species

- Mouse

#### Reactivity

- Human, Mouse, Rat

#### Applications

- IHC, WB

#### MW

- 46kD (Observed)

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**IHC** 1:50-200

**WB** 1:1000-2000

### Basic Information

**Clonality** Monoclonal

**Clone Number** 6H6

### Immunogen Information

**Immunogen** Synthesized peptide derived from human Phospho-GSK3 $\beta$ (Ser9)

**Specificity** This antibody detects endogenous levels of Phospho-GSK3 $\beta$ (Ser9) at Human, Mouse, Rat

### Target Information

**Gene name** GSK3B

**Protein Name** Phospho-GSK3 $\beta$  (Ser9)

| Organism | Gene ID                 | UniProt ID               |
|----------|-------------------------|--------------------------|
| Human    | <a href="#">2932</a> ;  | <a href="#">P49841</a> ; |
| Mouse    | <a href="#">56637</a> ; | <a href="#">Q9WV60</a> ; |
| Rat      | <a href="#">84027</a> ; | <a href="#">P18266</a> ; |

**Cellular Localization**

Cytoplasm . Nucleus . Cell membrane . The phosphorylated form shows localization to cytoplasm and cell membrane (PubMed:20937854) . The MEMO1-RHOA-DIAPH1 signaling pathway controls localization of the phosphorylated form to the cell membrane (PubMed:20937854) . .

**Tissue specificity**

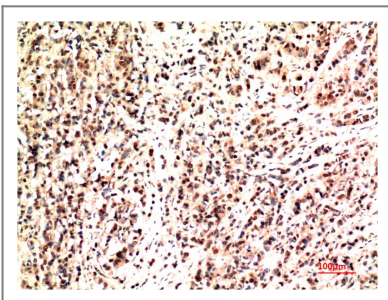
Expressed in testis , thymus , prostate and ovary and weakly expressed in lung , brain and kidney. Colocalizes with EIF2AK2/PKR and TAU in the Alzheimer disease (AD) brain.

**Function**

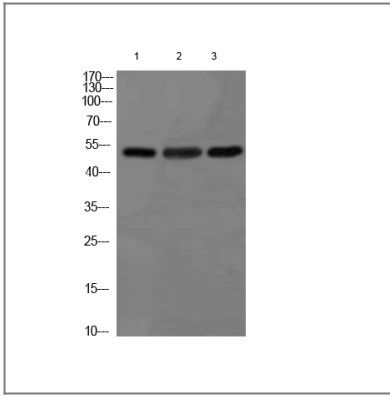
Catalytic activity:ATP + [tau protein] = ADP + [tau protein] phosphate. ,enzyme regulation:Inhibited when phosphorylated by AKT1. ,Function:Participates in the Wnt signaling pathway. Implicated in the hormonal control of several regulatory proteins including glycogen synthase , MYB and the transcription 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. ,

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## | Validation Data



Immunohistochemical analysis of paraffin-embedded Human Lung Carcinoma Tissue using GSK3 $\beta$  Mouse mAb diluted at 1:200.



Western blot analysis of 1) Hela Cell Lysate, 2) Mouse Heart Tissue Lysate, 3) Rat Heart Tissue Lysate using GSK 3 $\beta$  Mouse mAb diluted at 1:1000.

## Contact information

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Please scan the QR code to access additional product information:  
**GSK3 $\beta$  (Phospho Ser9) (6H6) Mouse mAb**

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