# Anti-Phospho-GSK3 beta (Ser9) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R010289

## Product Information

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| Application | WB, ELISA, IHC-P/IF (Tissue-P), IF (Cell)/ICC |
| Reactivity | Human |
| Dilution | WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200 |
| Host | Rabbit |
| Clonality | Monoclonal |
| Clone No. | 79L32L94 |
| Isotype | IgG |
| Label | Unconjugated |
| Immunogen | A synthetic phosphopeptide corresponding to residues surrounding Ser9 of human GSK3 beta |
| Format | Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3. |
| Storage | Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage. |
| Precautions | Anti-Phospho-GSK3 beta (Ser9) Rabbit mAb [79L32L94] is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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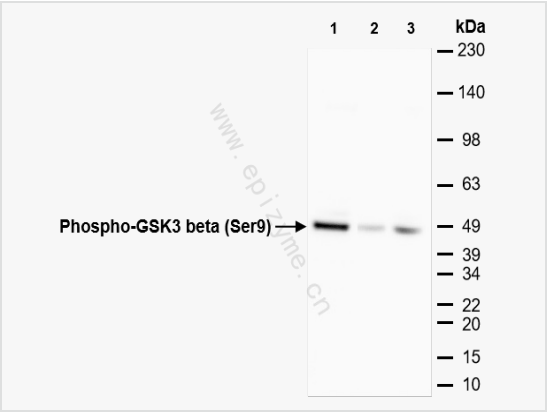
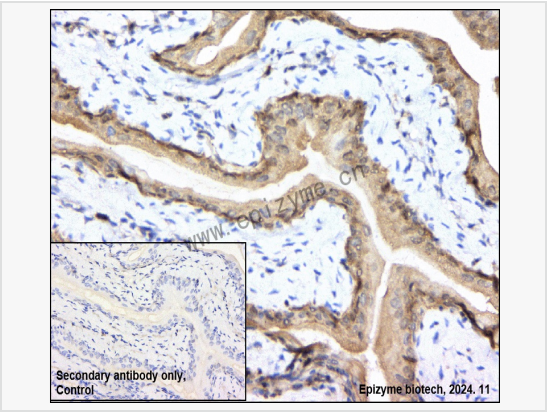
| Synonyms | Glycogen Synthase Kinase 3 Beta, Glycogen synthase kinase-3 beta, GSK 3 beta, GSK-3 beta, GSK3B, GSK3B_HUMAN, GSK3beta isoform, Serine/threonine-protein kinase GSK3B. |
| Calculated MW | Calculated MW: 47 kDa; Observed MW: 47 kDa |
| Uniprot ID | P49841 |
| Gene ID | 2932 |
| Background | The protein encoded by this gene is a serine-threonine kinase belonging to the glycogen synthase kinase subfamily. It is a negative regulator of glucose homeostasis and is involved in energy metabolism, inflammation, ER-stress, mitochondrial dysfunction, and apoptotic pathways. Defects in this gene have been associated with Parkinson disease and Alzheimer disease. [provided by RefSeq, Aug 2017] |
| Cellular Location | Cytoplasm. Nucleus. Cell membrane. The phosphorylated form shows localization to cytoplasm and cell membrane. The MEMO1-RHOA-DIAPH1 signaling pathway controls localization of the phosophorylated form to the cell membrane. |
| Tissue Location | Expressed in testis, thymus, prostate and ovary and weakly expressed in lung, brain and kidney. |

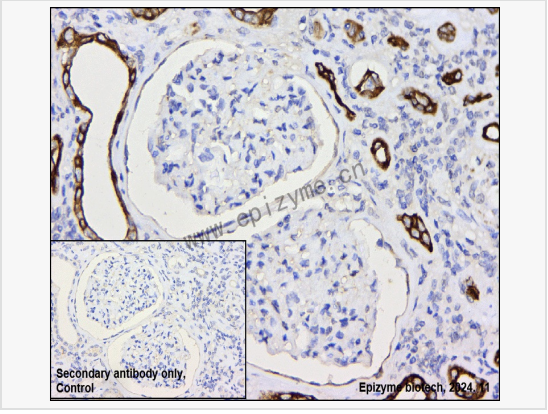
## Validation Images



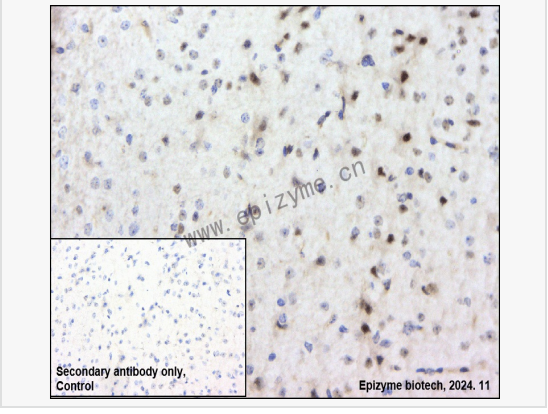

Western Blot - Anti-Phospho-GSK3 beta (Ser9) Rabbit mAb [79L32L94]
All lanes: R010289 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: U2OS (Human osteosarcoma epithelial cell) whole cell lysates
Lane 3: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 47 kDa
Observed band size: 47 kDa
Developed using the ECL technique (Cat. No. SQ201).



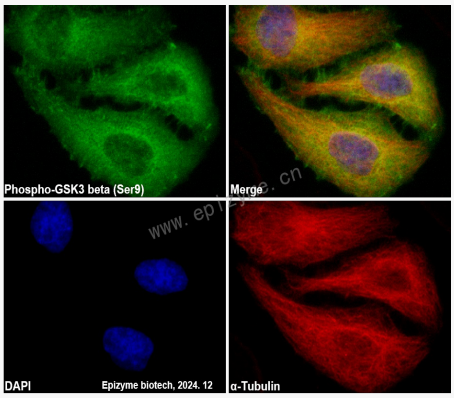

Immunohistochemistry - Anti-Phospho-GSK3 beta (Ser9) Rabbit mAb [79L32L94]
Sample: Paraformaldehyde-fixed, paraffin embedded rat bladder tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R010289 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.




Immunohistochemistry - Anti-Phospho-GSK3 beta (Ser9) Rabbit mAb [79L32L94]
Sample: Paraformaldehyde-fixed, paraffin embedded human renal carcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R010289 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.




Immunohistochemistry - Anti-Phospho-GSK3 beta (Ser9) Rabbit mAb [79L32L94]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse brain tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R010289 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.




Immunofluorescence - Anti-Phospho-GSK3 beta (Ser9) Rabbit mAb [79L32L94]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R010289 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).