

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

Purified Recombinant Rabbit Monoclonal Antibody

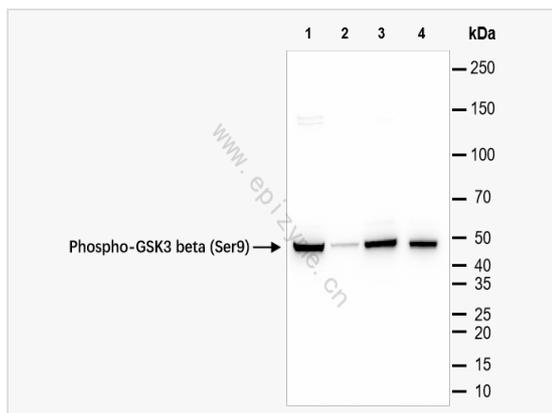
Catalog # R014114

## Product Information

|             |   |
|-------------|---|
| Application | WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA   |
| 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.   | 51C27D91  |
| Isotype     | IgG   |
| Label       | Unconjugated  |
| Immunogen   | A synthesized peptide derived from human Phospho-GSK3 beta (Ser9)   |
| 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 [51C27D91] is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

|                   |   |
|-------------------|---|
| 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        | GSK3B a proline-directed protein kinase of the GSK family. Phosphorylates and inactivates glycogen synthase. Participates in the Wnt signaling pathway. Involved in energy metabolism, neuronal cell development, and body pattern formation. |
| 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 phosphorylated form to the cell membrane.                  |
| Tissue Location   | Expressed in testis, thymus, prostate and ovary and weakly expressed in lung, brain and kidney.   |



Western Blot - Anti-Phospho-GSK3 beta (Ser9) Rabbit mAb [51C27D91]

All lanes: R014114 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: T24 (Human bladder cancer epithelial cell) whole cell lysates

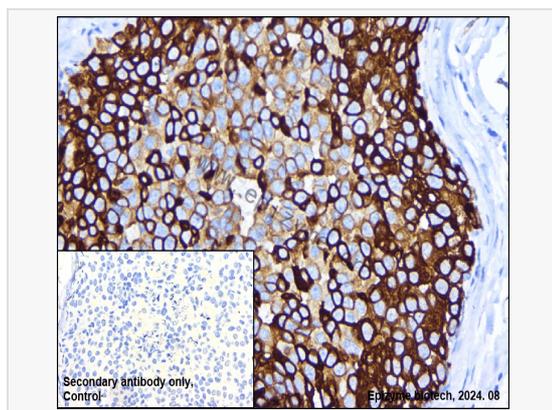
Lysates/proteins at 10 µg per lane.

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 [51C27D91]

Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R014114 at 1:200 dilution

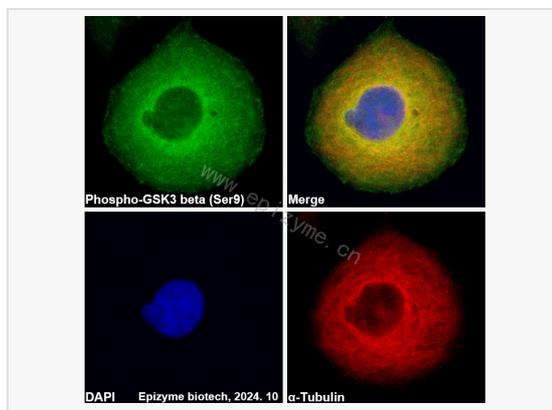
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

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 [51C27D91]

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: R014114 at 1:100 dilution and  $\alpha$ -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).