Anti-Phospho-GSK3 beta (Ser9) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014114

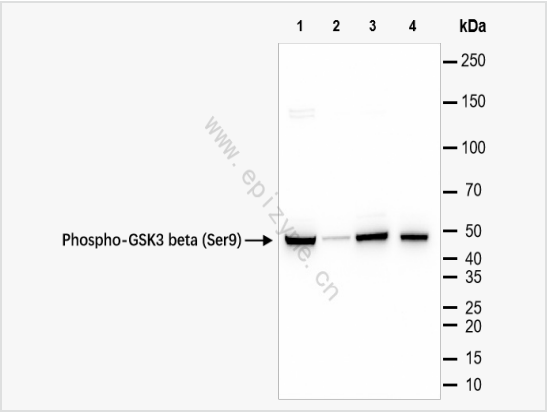
Product Information

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.

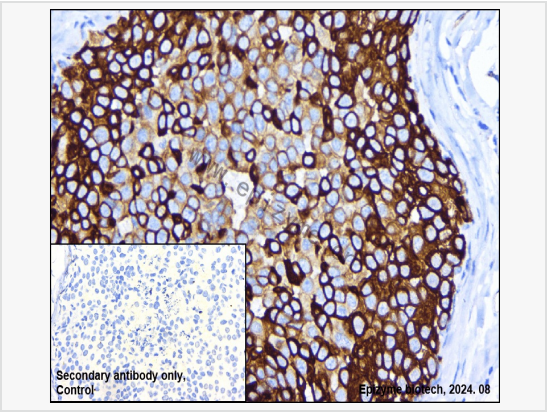
Protein Information

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 phosophorylated form to the cell membrane.
Tissue Location	Expressed in testis, thymus, prostate and ovary and weakly expressed in lung, brain and kidney.

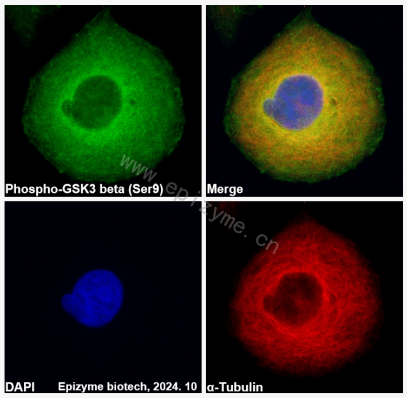
Validation Images



Western Blot - Anti-Phospho-GSK3 beta (Ser9) Rabbit mAb [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 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).