

Anti-GSK3 alpha/beta Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

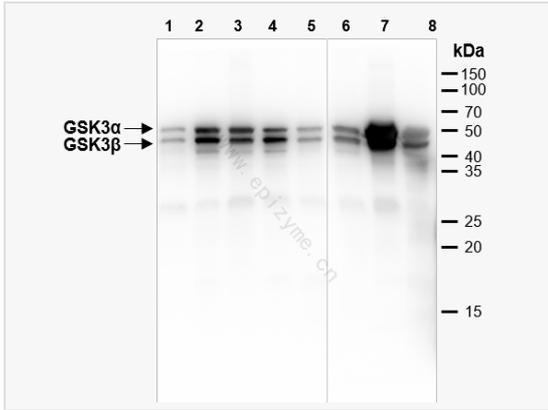
Catalog # R013742

Product Information

Application	IHC-P/IF (Tissue-P), WB, ELISA, IF (Cell)/ICC
Reactivity	Mouse, Human, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:200; IF 1:100
Host	Rabbit
Clonality	Monoclonal
Clone No.	13K09G20
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human GSK3 alpha
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-GSK3 alpha/beta Rabbit mAb [13K09G20] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	Serine/threonine-protein kinase GSK3A.
Calculated MW	Calculated MW: 51 kDa,47 kDa; Observed MW: 51 kDa,47 kDa
Uniprot ID	P49840
Gene ID	2931
Background	GSK3A a proline-directed protein kinase of the GSK family. Implicated in the control of several regulatory proteins including glycogen synthase, Myb, and c-Jun. GSK3 and GSK3 have similar functions. GSK3 phosphorylates tau, the principal component of neurofibrillary tangles in Alzheimer disease and is required for maximal production of amyloid plaque peptides by secretase.



Western Blot - Anti-GSK3 alpha/beta Rabbit mAb [13K09G20]

All lanes: R013742 at 1:2,000 dilution

Lane 1: MCF7 (human breast adenocarcinoma epithelial cell) whole cell lysates

Lane 2: Jurkat (human T lymphocytic leukemia 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

Lane 5: HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysates

Lane 6: SW620 (human colorectal carcinoma epithelial cell) whole cell lysates

Lane 7: Rat brain whole tissue lysates

Lane 8: Rat liver whole tissue lysates

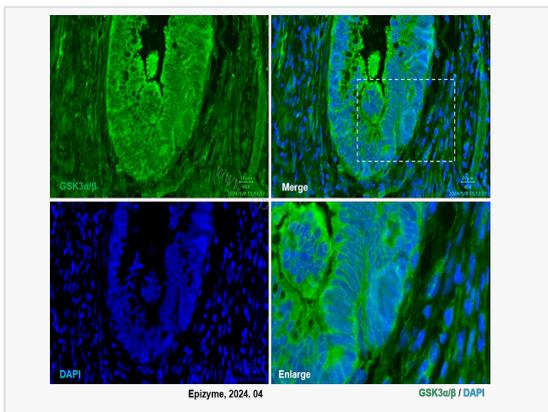
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 47 kDa, 51 kDa

Observed band size: 47 kDa, 51 kDa

Developed using the ECL technique (Cat. No. SQ201).



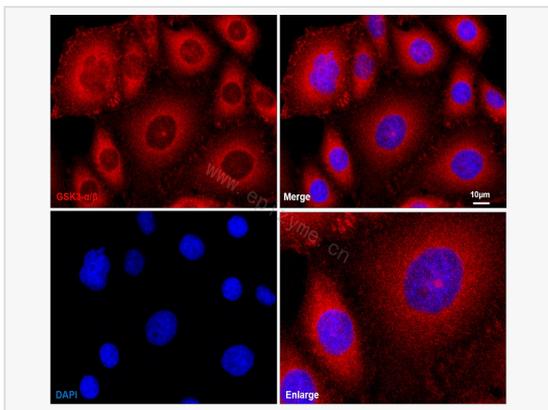
Immunofluorescence - Anti-GSK3 alpha/beta Rabbit mAb [13K09G20]

Sample: Paraformaldehyde-fixed, paraffin embedded human colorectal carcinoma tissue
The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R013742 at 1:100 dilution

Secondary antibody: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green)

Nuclei were stained with DAPI (shown in blue).



Immunofluorescence - Anti-GSK3 alpha/beta Rabbit mAb [13K09G20]

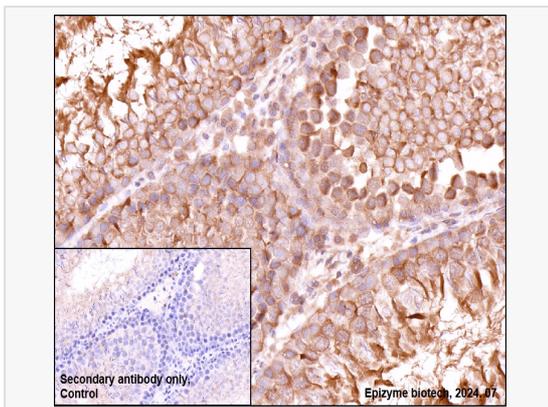
Sample: HeLa cells

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 antibody: R013742 at 1:100 dilution

Secondary antibody: Goat anti-Rabbit (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-GSK3 alpha/beta Rabbit mAb [13K09G20]

Sample: Paraformaldehyde-fixed, paraffin embedded rat testis tissue

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

Primary antibody: R013742 at 1:200 dilution

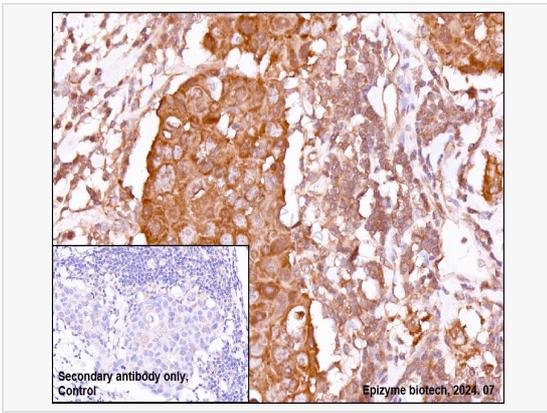
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

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-GSK3 alpha/beta Rabbit mAb [13K09G20]

Sample: Paraformaldehyde-fixed, paraffin embedded human breast carcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

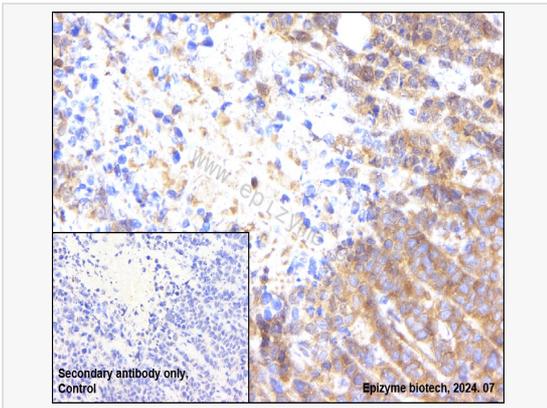
Primary antibody: R013742 at 1:200 dilution

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-GSK3 alpha/beta Rabbit mAb [13K09G20]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse subcutaneous tumor tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R013742 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.