Anti-Phospho-S6K1 (T421/S424) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013959

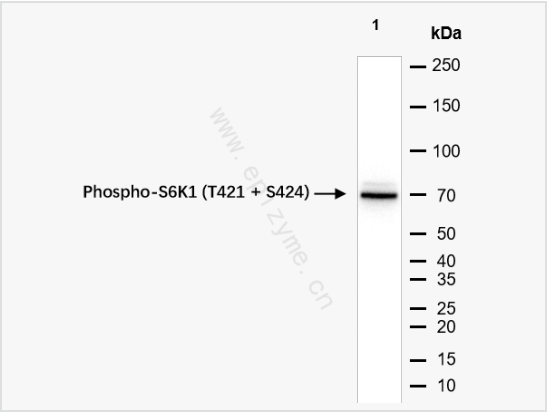
Product Information

Application	WB, ELISA, IHC-P/IF (Tissue-P), IF (Cell)/ICC
Reactivity	Human, Mouse, Rat
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.	92E29K97
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Phospho-S6K1 (T421 + S424)
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-S6K1 (T421/S424) Rabbit mAb [92E29K97] is for research use only and not for use in diagnostic or therapeutic procedures.

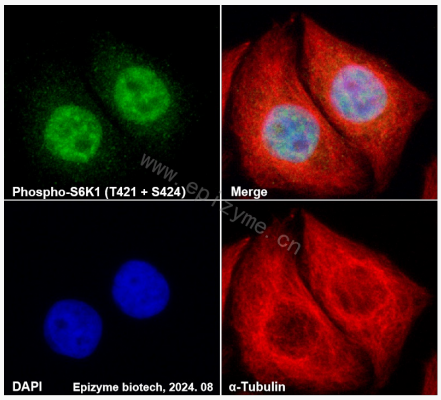
Protein Information

Synonyms	70 kDa ribosomal protein S6 kinase 1, p70 alpha, p70 S6 kinase alpha, p70 S6K, p70 S6KA, p70(S6K) alpha, p70s6kA, PS6K, Ribosomal protein S6 kinase 70kDa polypeptide 1, ribosomal protein S6 kinase beta 1, ribosomal protein S6 kinase I, Ribosomal protein S6 kinase, 70-kD, RPS6KB1, S6K, S6K1, Serine/threonine kinase 14 alpha, Serine/threonine protein kinase 14A, STK14A.
Calculated MW	Calculated MW: 59 kDa; Observed MW: 70 kDa
Uniprot ID	P23443
Gene ID	6198
Background	This gene encodes a member of the RSK (ribosomal S6 kinase) family of serine/threonine kinases. This kinase contains 2 non-identical kinase catalytic domains and phosphorylates several residues of the S6 ribosomal protein.
Cellular Location	Cell junction ? synapse ? synaptosome By similarity. Mitochondrion outer membrane. Mitochondrion. Note: Colocalizes with URI1 at mitochondrion. Isoform Alpha I: Nucleus. Cytoplasm Isoform Alpha II: Cytoplasm

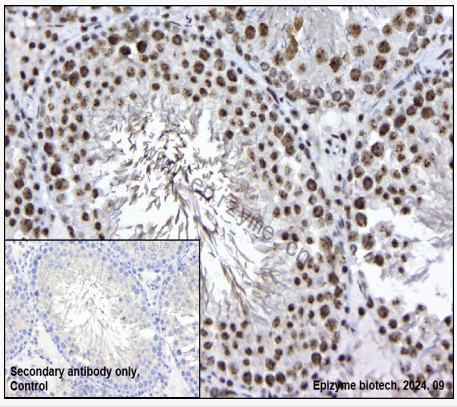
Validation Images



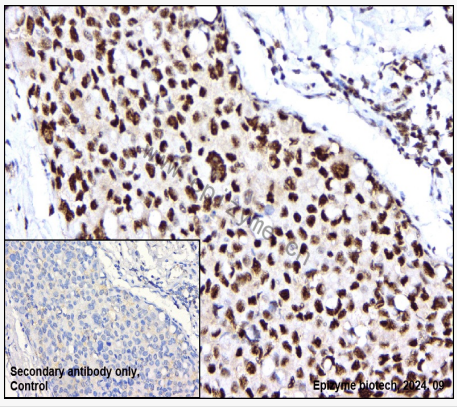
Western Blot - Anti-Phospho-S6K1 (T421/S424) Rabbit mAb [92E29K97]
All lanes: R013959 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 59 kDa
Observed band size: 70 kDa
Developed using the ECL technique (Cat. No. SQ201).



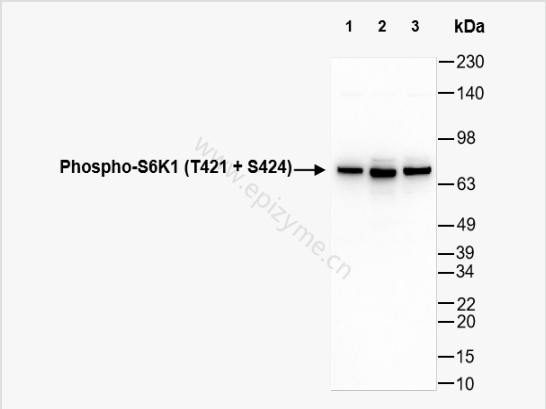
Immunofluorescence - Anti-Phospho-S6K1 (T421/S424) Rabbit mAb [92E29K97]
Sample: Hela cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R013959 at 1:100 dilution 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).



Immunohistochemistry - Anti-Phospho-S6K1 (T421/S424) Rabbit mAb [92E29K97]
Sample: Paraformaldehyde-fixed, paraffin embedded rat testis tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013959 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-S6K1 (T421/S424) Rabbit mAb [92E29K97]
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: R013959 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.



Western Blot -Anti-Phospho-S6K1 (T421/S424) Rabbit mAb [92E29K97]
All lanes: R013959 at 1:1,000 dilution
Lane 1: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 2: Raw264.7 (Mouse mononuclear macrophage leukemia cell)whole cell lysates
Lane 3: PC-12(Rat adrenal pheochromocytoma 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: 59 kDa
Observed band size: 70 kDa
Developed using the ECL technique (Cat. No. SQ201).