

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

Purified Recombinant Rabbit Monoclonal Antibody

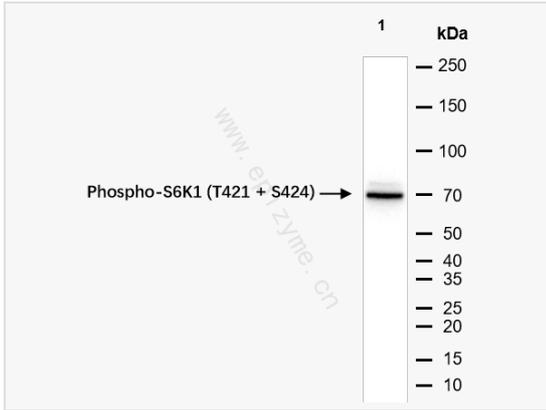
Catalog # R013959

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



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

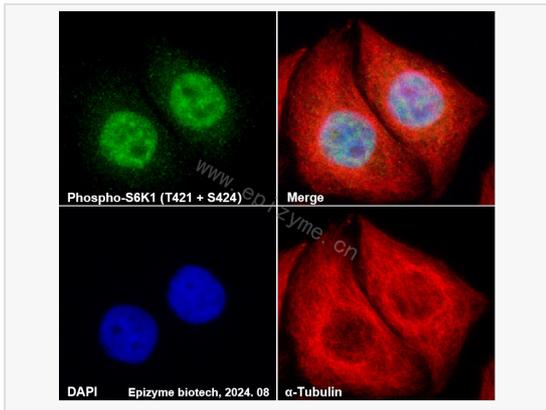
Lysates/proteins at 10 μ g per lane.

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]

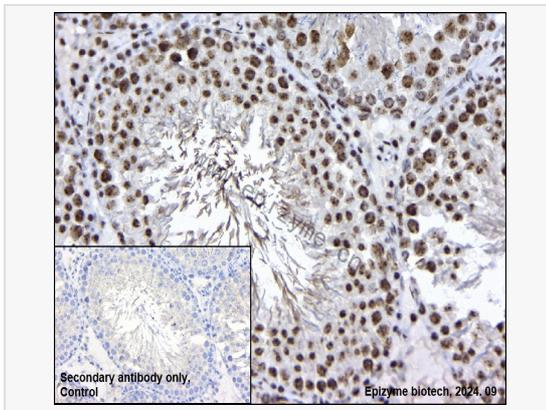
Sample: HeLa cells

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.

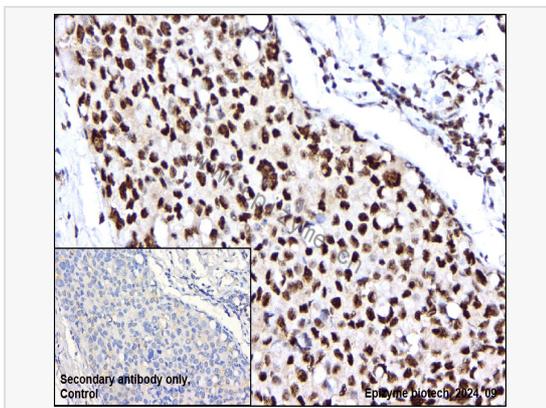
Primary antibody: R013959 at 1:200 dilution

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.

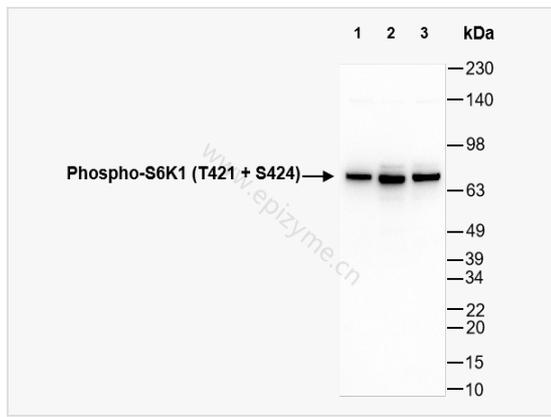
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Counter stained with hematoxylin.

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 μ g 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).