

Anti-S6K1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

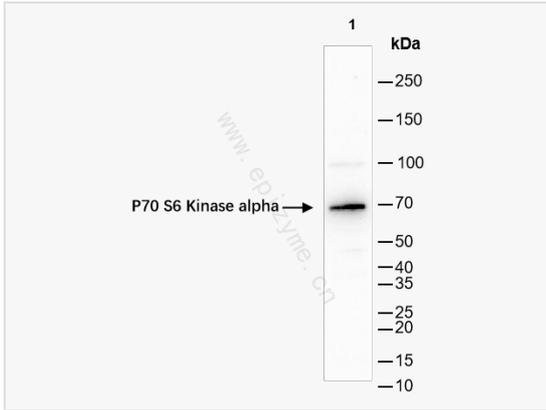
Catalog # R014003

Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Rat
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	92F06J82
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human P70 S6 Kinase 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-S6K1 Rabbit mAb [92F06J82] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	70 kDa ribosomal protein S6 kinase 1, KS6B1_HUMAN, p70 alpha, P70 beta 1, p70 ribosomal S6 kinase alpha, p70 ribosomal S6 kinase beta 1, p70 S6 kinase alpha, P70 S6 Kinase, p70 S6 kinase, alpha 1, p70 S6 kinase, alpha 2, p70 S6K, p70 S6K-alpha, p70 S6KA, p70(S6K) alpha, p70(S6K)-alpha, p70-alpha, p70-S6K 1, p70-S6K, P70S6K, P70S6K1, p70S6Kb, PS6K, Ribosomal protein S6 kinase 70kDa polypeptide 1, Ribosomal protein S6 kinase beta 1, Ribosomal protein S6 kinase beta-1, Ribosomal protein S6 kinase I, RPS6KB1, S6K, S6K-beta-1, 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	Acts to integrate nutrient and growth factor signals in regulation of protein synthesis, cell proliferation, cell growth, cell cycle progression and cell survival. Downstream effector of the mTOR signaling pathway.
Cellular Location	Cytoplasm; Nucleus. Cytoplasm and Cell junction > synapse > synaptosome. Mitochondrion outer membrane.
Tissue Location	Widely expressed.



Western Blot - Anti-S6K1 Rabbit mAb [92F06J82]

All lanes: R014003 at 1:1,000 dilution

Lane 1: A431 (Human epidermoid teratoma cell line) whole cell lysates

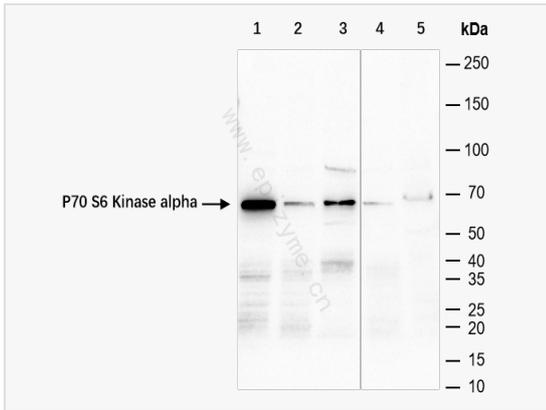
Lysates/proteins at 10 µg per lane.

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).



Western Blot - Anti-S6K1 Rabbit mAb [92F06J82]

All lanes: R014003 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: Rat heart whole tissue lysates

Lane 5: Rat brain whole tissue lysates

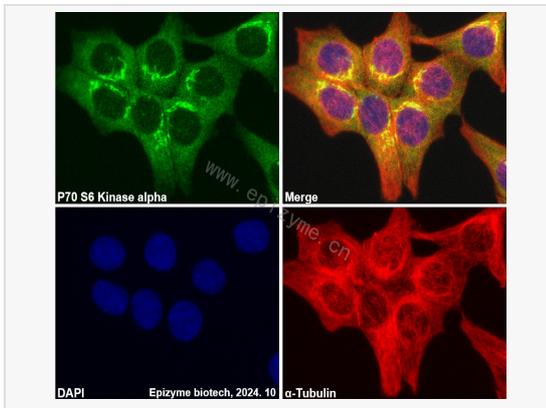
Lysates/proteins at 10 µg per lane.

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

Predicted band size: 59 kDa

Observed band size: 70 kDa

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



Immunofluorescence - Anti-S6K1 Rabbit mAb [92F06J82]

Sample: A431 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: R014003 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).