

Phospho-S6 Ribosomal Protein (RPS6)-S235 Rabbit pAb

Catalog No.: AP0227

Basic Information

Observed MW

29kDa

Calculated MW

29kDa

Category

Primary antibody

Applications

ELISA, WB

Cross-Reactivity

Human, Mouse, Rat

Background

Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a cytoplasmic ribosomal protein that is a component of the 40S subunit. The protein belongs to the S6E family of ribosomal proteins. It is the major substrate of protein kinases in the ribosome, with subsets of five C-terminal serine residues phosphorylated by different protein kinases. Phosphorylation is induced by a wide range of stimuli, including growth factors, tumor-promoting agents, and mitogens. Dephosphorylation occurs at growth arrest. The protein may contribute to the control of cell growth and proliferation through the selective translation of particular classes of mRNA. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome.

Recommended Dilutions

WB 1:500 - 1:2000

Immunogen Information

Gene ID

6194

Swiss Prot

P62753

Immunogen

A phospho specific peptide corresponding to residues surrounding S235 of human RPS6

Synonyms

S6; eS6; Phospho-S6 Ribosomal Protein (RPS6)-S235

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

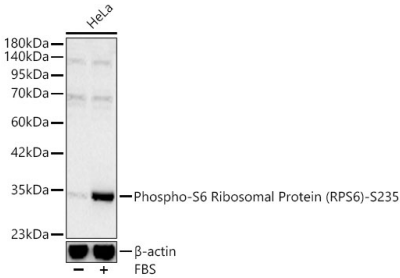
Affinity purification

Storage

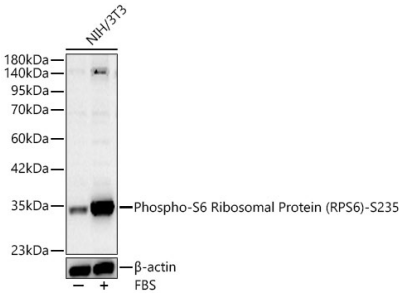
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

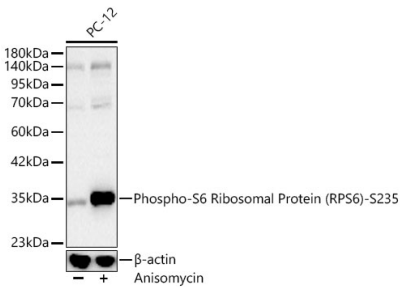
Validation Data



Western blot analysis of lysates from HeLa cells using Phospho-S6 Ribosomal Protein (RPS6)-S235 Rabbit pAb (AP0227) at 1:800 dilution. HeLa cells were treated by 20% FBS at 37°C for 90 minutes after serum starvation overnight.
Secondary antibody:HRP Goat Anti-Rabbit IgG (H+L)(AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection:ECL Basic Kit (RM00020).
Exposure time: 30s.



Western blot analysis of lysates from NIH/3T3 cells using Phospho-S6 Ribosomal Protein (RPS6)-S235 Rabbit pAb (AP0227) at 1:800 dilution. NIH/3T3 cells were treated by 20% FBS at 37°C for 90 minutes after serum starvation overnight.
Secondary antibody:HRP Goat Anti-Rabbit IgG (H+L)(AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection:ECL Basic Kit (RM00020).
Exposure time: 30s.



Western blot analysis of lysates from PC-12 cells using Phospho-S6 Ribosomal Protein (RPS6)-S235 Rabbit pAb (AP0227) at 1:800 dilution. PC-12 cells were treated by Anisomycin (25 µg/ml) at 37°C for 30 minutes.
Secondary antibody:HRP Goat Anti-Rabbit IgG (H+L)(AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection:ECL Basic Kit (RM00020).
Exposure time: 30s.