Phospho-S6 Ribosomal Protein (RPS6)-S235/236 Rabbit mAb

Catalog No.: AP1325 Recombinant

Basic Information

Observed MW
32kDa

Calculated MW
29kDa

Category
Primary antibody

Applications
ELISA,WB,IHC-P

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC53843

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	1:2000 - 1:7000
IHC-P	1:100 - 1:500

Immunogen Information

Gene ID
6194

Swiss Prot
P62753

Immunogen
A synthetic phosphorylated peptide around S235 & S236 of human S6 Ribosomal Protein (RPS6) (NP_001001.2).

Synonyms
S6; eS6; Phospho-S6 Ribosomal Protein (RPS6)-S235/236

Contact

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Product Information

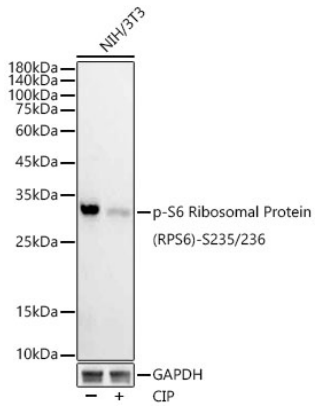
Source
Rabbit

Isotype
IgG

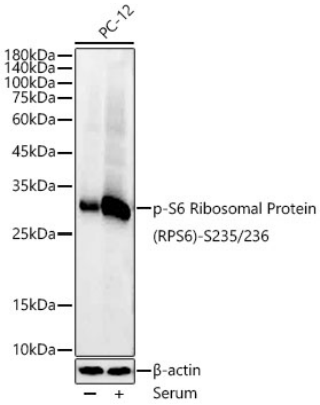
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

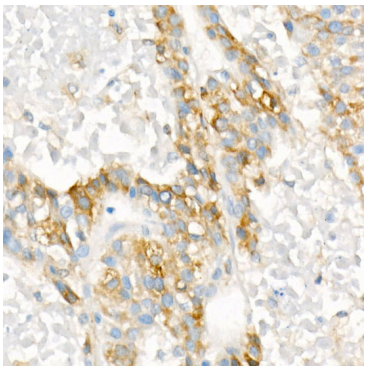
Validation Data



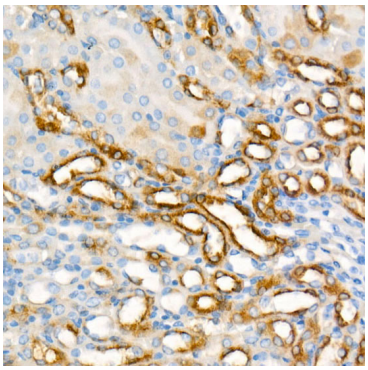
Western blot analysis of lysates from NIH/3T3 cells, using Phospho-S6 Ribosomal Protein (RPS6)-S235/236 Rabbit mAb (AP1325) at1:6000 dilution. NIH/3T3 cells were treated by CIP(20uL/400ul) at 37℃ for 1 hour.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20s.



Western blot analysis of lysates from PC-12 cells, using Phospho-S6 Ribosomal Protein (RPS6)-S235/236 Rabbit mAb (AP1325) at1:6000 dilution. PC-12 cells were treated by 10% FBS at 37℃ for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20s



Immunohistochemistry analysis of paraffin-embedded Human liver cancer using Phospho-S6 Ribosomal Protein (RPS6)-S235/236 Rabbit mAb (AP1325) at dilution of 1:500 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse kidney using Phospho-S6 Ribosomal Protein (RPS6)-S235/236 Rabbit mAb (AP1325) at dilution of 1:500 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.