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Phospho-S6 Ribosomal Protein (RPS6)-S240/244 Rabbit pAb

Catalog No.: AP0537 **7 Publications**

Basic Information

Observed MW
36kDa

Calculated MW
29kDa

Category
Primary antibody

Applications
WB,IHC-P,IP,ELISA

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
IHC-P	1:50 - 1:200
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
6194

Swiss Prot
P62753

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
S6; eS6; Phospho-S6 Ribosomal Protein (RPS6)-S240/244

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Contact

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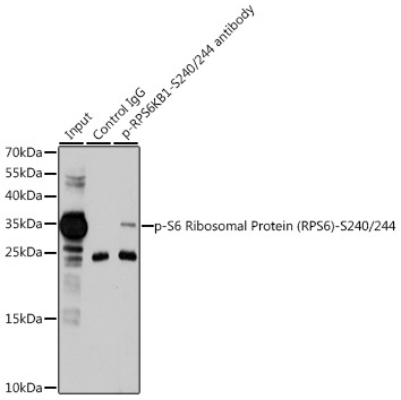
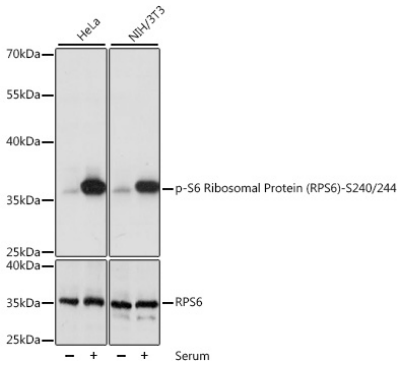
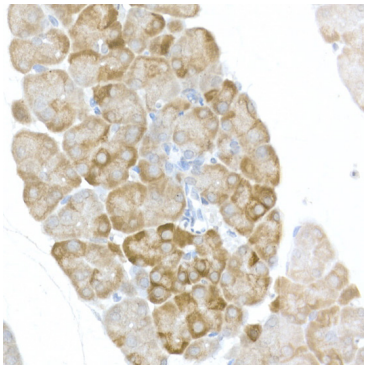
Validation Data



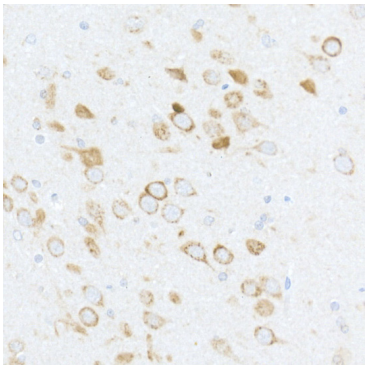
Immunoprecipitation analysis of 200 µg extracts of 293T cells, using 3 µg Phospho-S6 Ribosomal Protein (RPS6)-S240/244 pAb (AP0537). Western blot was performed from the immunoprecipitate using Phospho-RPS6-S240/244 pAb (AP0537) at a dilution of 1:1000. 293T cells were treated with PMA/TPA (200 nM) at 37℃ for 30 minutes after serum-starvation overnight.



Western blot analysis of various lysates using Phospho-S6 Ribosomal Protein (RPS6)-S240/244 Rabbit pAb (AP0537) at 1:1000 dilution or RPS6 antibody (A6058). HeLa and NIH/3T3 cells were treated with 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% BSA.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.



Immunohistochemistry analysis of paraffin-embedded Mouse pancreas using Phospho-S6 Ribosomal Protein (RPS6)-S240/244 Rabbit pAb (AP0537) at dilution of 1:50 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat brain using Phospho-S6 Ribosomal Protein (RPS6)-S240/244 Rabbit pAb (AP0537) at dilution of 1:50 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.