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

Catalog No.: AP1326 Recombinant

Basic Information

Observed MW
32 kDa

Calculated MW
29 kDa

Category
Primary antibody

Applications
WB,IHC-P,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC53838

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 - 1:6000
IHC-P	1:50 - 1:200
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)-S235/236

Contact

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Product Information

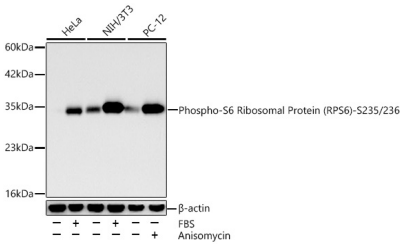
Source
Rabbit

Isotype
IgG

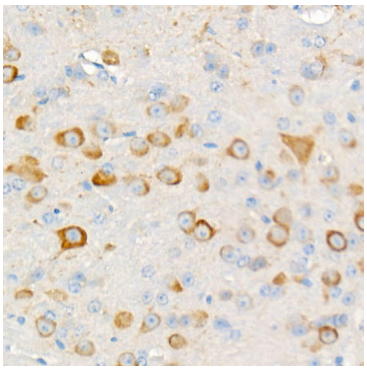
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

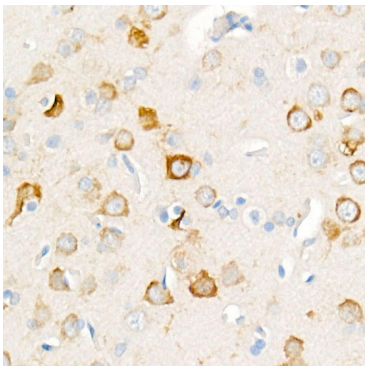
Validation Data



Western blot analysis of various lysates using Phospho-S6 Ribosomal Protein (RPS6)-S235/236 Rabbit mAb (AP1326) at 1:3000 dilution incubated at room temperature for 1.5 hours. HeLa cells were treated with 10% FBS at 37℃ for 30 minutes. NIH/3T3 cells were treated with 10% FBS at 37℃ for 1.5 hours. PC-12 cells were treated with Anisomycin (100 ng/mL) at 37℃ for 24 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using Phospho-S6 Ribosomal Protein (RPS6)-S235/236 Rabbit mAb (AP1326) at dilution of 1:200 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using Phospho-S6 Ribosomal Protein (RPS6)-S235/236 Rabbit mAb (AP1326) at dilution of 1:200 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.