

Product datasheet for TA381118

RPS6 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, IP, WB

Recommended Dilution: WB,1:500 - 1:2000

IHC,1:50 - 1:200 IP,1:50 - 1:100

Reactivity: Human, Mouse, Rat **Modifications:** Phospho S240/244

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Immunogen: A synthetic phosphorylated peptide around S240 & S244 of human RPS6 (NP_001001.2).

Formulation: Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

Concentration: lot specific

Purification: Affinity purification

Conjugation: Unconjugated

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

Stability: Shelf life: one year from despatch.

Predicted Protein Size: 28kDa

Gene Name: ribosomal protein S6

Database Link: Entrez Gene 6194 Human

P62753



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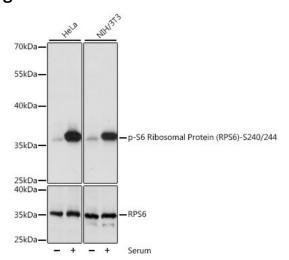


Background:

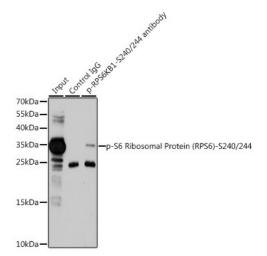
Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a cytoplasmic ribosomal protein that is a component of the 40S 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.

Synonyms: RPS6

Product images:



Western blot analysis of extracts of various cell lines, using Phospho-S6 Ribosomal Protein (RPS6)-S240/244 antibody (TA381118) at 1:1000 dilution or RPS6 antibody (A6058). HeLa cells were treated by 10% FBS at 37°C for 30 minutes after serum-starvation overnight. NIH/3T3 cells were treated by 10% FBS at 37°C for 30 minutes after serum-starvation overnight. |Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. |Lysates/proteins: 25ug per lane. |Blocking buffer: 3% BSA. |Detection: ECL Basic Kit. |Exposure time: 1s.



Immunoprecipitation analysis of 200ug extracts of 293T cells, using 3 ug Phospho-S6 Ribosomal Protein (RPS6)-S240/244 pAb (TA381118). Western blot was performed from the immunoprecipitate using Phospho-RPS6-S240/244 pAb (TA381118) at a dilition of 1:1000. 293T cells were treated by PMA/TPA (200 nM) at 37°C for 30 minutes after serum-starvation overnight.