Anti-Phospho-RPS6 (Ser240/Ser244) Rabbit pAb

Purified Rabbit Polyclonal Antibody

Catalog # P108738

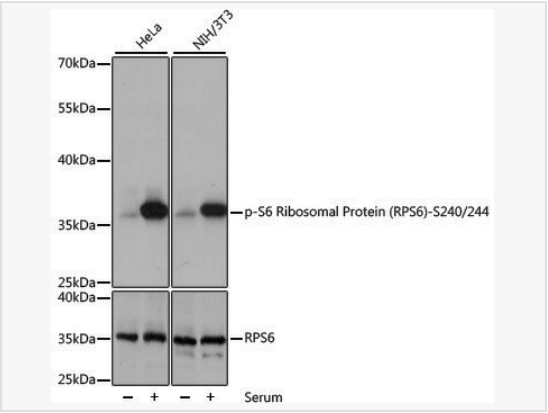
Product Information

Application	WB, IHC-P/IF (Tissue-P), IP, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:500~1:2,000; IHC-P 1:50~1:200; IP 0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic phosphorylated peptide around S240 & S244 of human RPS6 (NP_001001.2).
Format	Affinity purified polyclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-RPS6 (Ser240/Ser244) Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures.

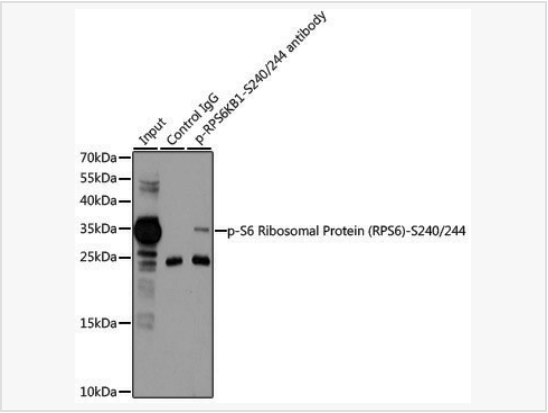
Protein Information

Synonyms	S6; eS6; Phospho-S6 Ribosomal Protein (RPS6)-S240/244.
Calculated MW	Calculated MW: 29 kDa; Observed MW: 36 kDa
Uniprot ID	P62753
Gene ID	6194
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.

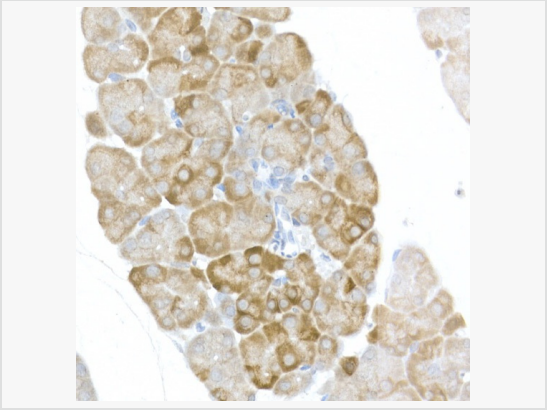
Validation Images



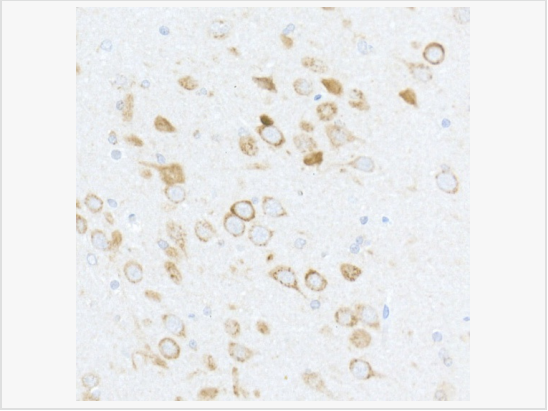
Western blot analysis of various lysates using Phospho-S6 Ribosomal Protein (RPS6)-S240/244 Rabbit pAb (P108738) at 1:1,000 dilution or RPS6 antibody (P106360). HeLa and NIH/3T3 cells were treated by 10% FBS at 37°C for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% BSA.
Detection: ECL Kit (SQ201).
Exposure time: 1s.



Immunoprecipitation analysis of 200 µg extracts of 293T cells, using 3 µg Phospho-S6 Ribosomal Protein (RPS6)-S240/244 pAb (P108738). Western blot was performed from the immunoprecipitate using Phospho-RPS6-S240/244 pAb (P108738) at a dilution of 1:1000. 293T cells were treated by PMA/TPA (200 nM) at 37°C for 30 minutes after serum-starvation overnight.



Immunohistochemistry analysis of paraffin-embedded Mouse pancreas using Phospho-S6 Ribosomal Protein (RPS6)-S240/244 Rabbit pAb (P108738) at dilution of 1:50 (40× lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat brain using Phospho-S6 Ribosomal Protein (RPS6)-S240/244 Rabbit pAb (P108738) at dilution of 1:50 (40× lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.