

## Product datasheet for **AP53742PU-N**

### RPS6 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	FC, IHC, WB
Recommended Dilution:	ELISA: 1/1,000. Western blotting: 1/100-1/500. Flow Cytometry: 1/10-1/50. Immunohistochemistry: 1/50-1/100.
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 227-257 amino acids from Human RPS6.
Specificity:	Recognizes RPS6 (Ser240/244).
Formulation:	PBS with 0.09% (W/V) Sodium Azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein A column followed by peptide Affinity purification
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	ribosomal protein S6
Database Link:	<a href="#">Entrez Gene 20104 Mouse</a> <a href="#">Entrez Gene 6194 Human</a> <a href="#">P62753</a>



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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:**

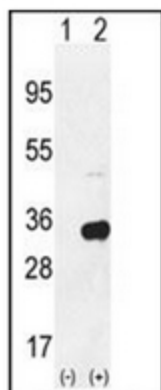
Phosphoprotein NP33, 40S ribosomal protein S6

**Note:**

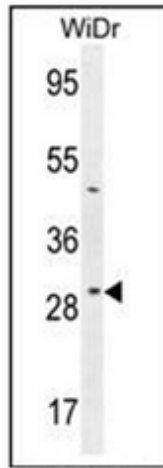
**Molecular Weight:** 28681 Da

**Protein Pathways:**

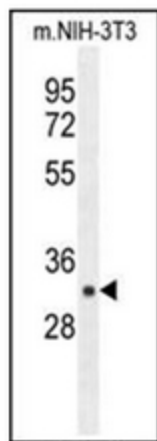
Insulin signaling pathway, mTOR signaling pathway, Ribosome

**Product images:**

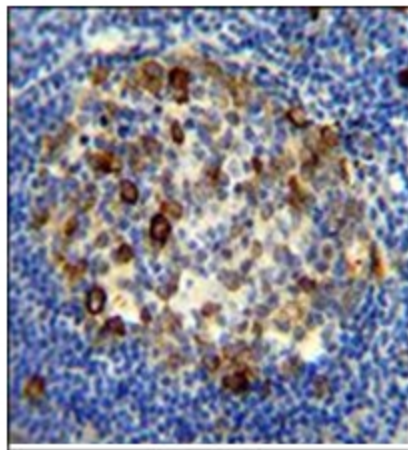
Western blot analysis of RPS6 (arrow) using RPS6 Antibody (Ser240/244). 293 cell lysates (2 ug/lane) either non-transfected (Lane 1) or transiently transfected with the RPS6 gene (Lane 2).



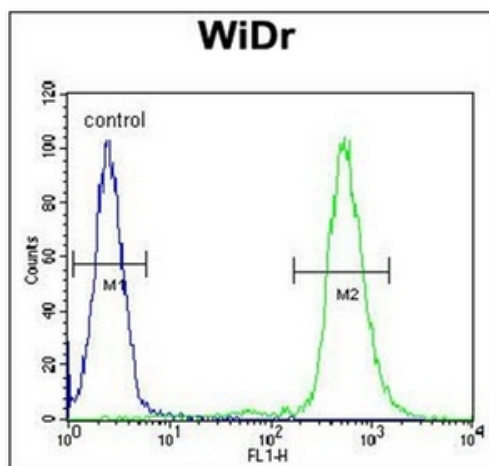
Western blot analysis of RPS6 in WiDr cell line lysates (35ug/lane) using RPS6 Antibody (Ser240/244). This demonstrates the RPS6 antibody detected the RPS6 protein (arrow).



Western blot analysis of RPS6 in mouse NIH-3T3 cell line lysates (35ug/lane) using RPS6 Antibody (Ser240/244). This demonstrates the RPS6 antibody detected the RPS6 protein (arrow).



Immunohistochemistry analysis in Formalin Fixed, Paraffin Embedded Human tonsil tissue using RPS6 antibody (Ser240/244) followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the RPS6 antibody (Ser240/244) for immunohistochemistry. Clinical relevance has not been evaluated.



Flow Cytometric analysis of WiDr cells using RPS6 Antibody (Ser240/244) (right histogram) compared to a Negative control cell (left histogram). FITC-conjugated Goat-anti-Rabbit secondary antibodies were used for the analysis.