**Product Name: Ribosomal Protein S6 (phospho Ser240) Rabbit Polyclonal Antibody**
**Catalog #: APRab05373**

## Summary

| | |
|---|---|
| **Production Name** | Ribosomal Protein S6 (phospho Ser240) Rabbit Polyclonal Antibody |
| **Description** | Rabbit Polyclonal Antibody |
| **Host** | Rabbit |
| **Application** | IF,IHC,WB,ELISA |
| **Reactivity** | Human,Mouse,Rat |

## Performance

| | |
|---|---|
| **Conjugation** | Unconjugated |
| **Modification** | Phospho Antibody |
| **Isotype** | IgG |
| **Clonality** | Polyclonal |
| **Form** | Liquid |
| **Storage** | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| **Buffer** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N. |
| **Purification** | Affinity purification |

## Immunogen

| | |
|---|---|
| **Gene Name** | RPS6 |
| **Alternative Names** | RPS6; OK/SW-cl.2; 40S ribosomal protein S6; Phosphoprotein NP33 |
| **Gene ID** | 6194.0 |
| **SwissProt ID** | P62753.The antiserum was produced against synthesized peptide derived from human S6 Ribosomal Protein around the phosphorylation site of Ser240. AA range:200-249 |

## Application

| | |
|---|---|
| **Dilution Ratio** | WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications. |
| **Molecular Weight** | 28kD |

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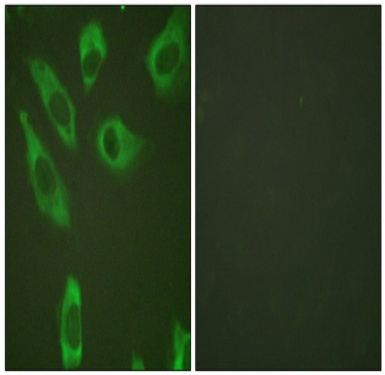
## Background

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 processedfunction:May play an important role in controlling cell growth and proliferation through the selective translation of particular classes of mRNA.,PTM:Ribosomal protein S6 is the major substrate of protein kinases in eukaryote ribosomes. The phosphorylation is stimulated by growth factors, tumor promoting agents, and mitogens. It is dephosphorylated at growth arrest.,similarity:Belongs to the ribosomal protein S6e family.,

## Research Area

Ribosome;mTOR;Insulin_Receptor;

## Image Data



Immunofluorescence analysis of HeLa cells, using S6 Ribosomal Protein （Phospho-Ser240） Antibody. The picture on the right is blocked with the phospho peptide.

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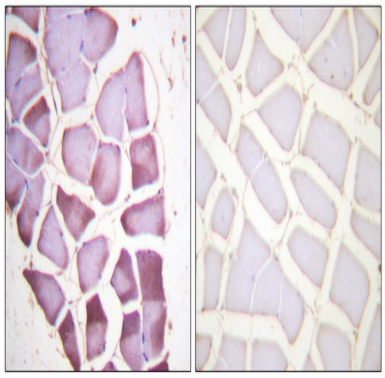
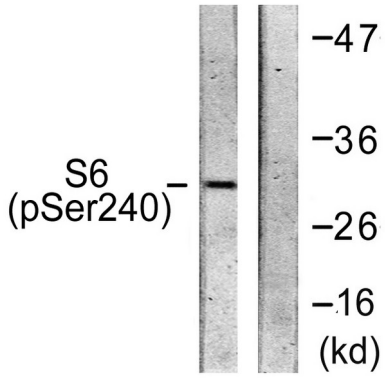


Immunohistochemistry analysis of paraffin-embedded human skeletal muscle, using S6 Ribosomal Protein (Phospho-Ser240) Antibody. The picture on the right is blocked with the phospho peptide.




Western blot analysis of lysates from HeLa cells treated with TNF-a 20ng/ml 2 ', using S6 Ribosomal Protein (Phospho-Ser240) Antibody. The lane on the right is blocked with the phospho peptide.

## Note

For research use only.