

## Recombinant Phospho-S6 Ribosomal Protein (Ser240, 244) Monoclonal Antibody

catalog number: AN300371L

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

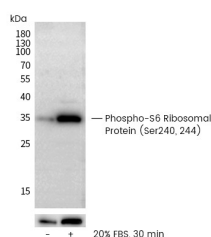
### Description

|                     |   |
|---------------------|---|
| <b>Reactivity</b>   | Human   |
| <b>Immunogen</b>    | A synthetic peptide corresponding to residues around                                |
| <b>Host</b>         | Rabbit  |
| <b>Isotype</b>      | IgG   |
| <b>Clone</b>        | 11A9  |
| <b>Purification</b> | Protein A   |
| <b>Buffer</b>       | 10 mM sodium HEPES, 150 mM NaCl, 100 µg/mL protein protectant, 50% glycerol, pH 7.5 |

### Applications

| Applications | Recommended Dilution |
|--------------|----------------------|
| <b>WB</b>    | 1:1000-1:5000        |
| <b>IHC-P</b> | 1:1000-1:5000        |

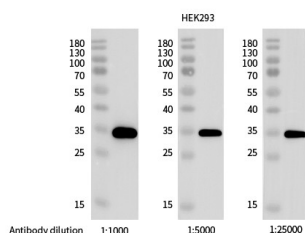
### Data



Western blot analysis of extracts from serum-starved HEK293, untreated (-) or treated with 20% FBS, using Phospho-S6 Ribosomal Protein (Ser240, 244) Antibody, Rabbit MAb (upper), or Anti-RPS6 Antibody, Rabbit Polyclonal (lower) at 1:1000 dilution.

**Observed-MW:35 kDa**

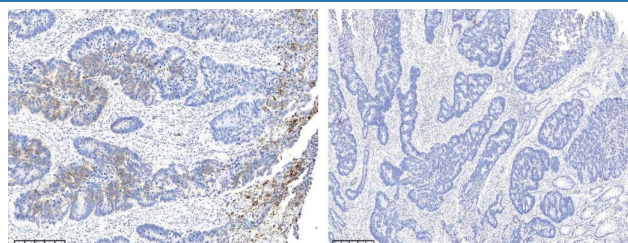
**Calculated-MW:28 kDa**



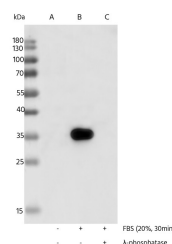
Western blot analysis of extracts from serum-starved HEK293, treated with 20% FBS (30 min), using Phospho-S6 Ribosomal Protein (Ser240, 244) Antibody, Rabbit MAb at dilution. of 1:1000, 1:5000 and 1:25000.

**Observed-MW:35 kDa**

**Calculated-MW:28 kDa**



Immunohistochemistry of paraffin-embedded human carcinoma of sigmoid tissue using S6 Ribosomal Protein (Ser240, 244) Monoclonal Antibody at dilution of 1:2000.



Western blot analysis of extracts from serum-starved HEK293, untreated (line A); treated with FBS(20%, 30min) (line B); treated with FBS and λ-phosphatase (line C) using Phospho-S6 Ribosomal Protein (Ser240, 244) rabbit monoclonal Antibody at 1:5000 dilution.

**Observed-MW:35 kDa**

**Calculated-MW:28 kDa**

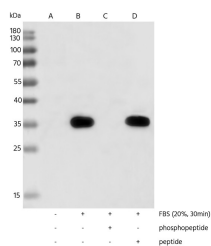
### For Research Use Only

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Rev. V1.0



Western blot analysis of extracts from serum-starved , untreated (line A); treated with FBS(20%, 30min), without peptide (line B) or antigen-specific phosphopeptide (line C) or antigen-specific peptide (line D) using Phospho-S6 Ribosomal Protein (Ser240, 244) rabbit monoclonal Antibody at 1:5000 dilution.

**Observed-MW:35 kDa**

**Calculated-MW:28 kDa**

## Preparation & Storage

### Storage

This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.

### Shipping

Ice bag

## 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.

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