**p-Ribosomical Protein S6 (24.Ser 240): sc-293143**

**BACKGROUND**

The genes encoding for mammalian ribosomal proteins comprise multigene families that consist predominantly of multiple processed pseudogenes and one functional intron-containing gene within their coding regions. The RPS6 gene gives rise to Ribosomal Protein S6 (also designated RPS6). RPS6 is the major substrate of protein kinases in eukaryotic ribosomes. Sequence comparison has identified RPS6 as the equivalent of the Ribosomal Protein S10 from *Saccharomyces cerevisiae*. The sequence comparison of ribosomal proteins from evolutionarily distant eukaryotes, such as yeast and human, indicates that the structure and probably the function of RPS6 has been highly conserved. RPS6 phosphorylation is stimulated by growth factors, tumor promoting agents and mitogens. It is dephosphorylated at growth arrest.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: RPS6 (human) mapping to 9p22.1; Rps6 (mouse) mapping to 4 C4.

**SOURCE**

p-Ribosomal Protein S6 (24.Ser 240) is a mouse monoclonal antibody raised against a short amino acid sequence containing Ser 240 phosphorylated Ribosomal Protein S6 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**STORAGE**

Store at 4° C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**APPLICATIONS**

p-Ribosomal Protein S6 (24.Ser 240) is recommended for detection of Ser 240 phosphorylated Ribosomal Protein S6 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Ribosomal Protein S6 siRNA (h): sc-36424, Ribosomal Protein S6 siRNA (m): sc-36425, Ribosomal Protein S6 shRNA Plasmid (h): sc-36424-SH, Ribosomal Protein S6 shRNA Plasmid (m): sc-36425-SH, Ribosomal Protein S6 shRNA (h) Lentiviral Particles: sc-36424-V and Ribosomal Protein S6 shRNA (m) Lentiviral Particles: sc-36425-V.

Molecular Weight of p-Ribosomal Protein S6: 28 kDa.

Positive Controls: HEK293 whole cell lysate: sc-45136, MDA-MB-435S whole cell lysate: sc-364184 or Hep G2 cell lysate: sc-2227.

**DATA**

Western blot analysis of Ribosomal Protein S6 phosphorylation in untreated (A, D), EGF treated (B, E) and EGFR and lambda protein phosphatase (sc-36412A) treated (C, F) HEK293 whole cell lysates. Antibodies tested include p-Ribosomal Protein S6 (24.Ser 240): sc-293143 (A, B, C) and Ribosomal Protein S6 (C-8): sc-74459 (D, E, F).

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

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