

## 12-4036: Phospho-S6 Ribosomal Protein (Ser235/236) (Clone: R3A2) rabbit mAb

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	S6S235S236-R3A2
<b>Application :</b>	FACS, WB
<b>Reactivity :</b>	Human, Mouse
<b>Conjugate :</b>	Unconjugated
<b>Format :</b>	Purified
<b>Alternative Name :</b>	40S ribosomal protein S6, Phosphoprotein NP33, Small ribosomal subunit protein eS6, RPS6
<b>Isotype :</b>	Rabbit IgG1k
<b>Immunogen Information :</b>	A synthetic phospho-peptide corresponding to residues surrounding Ser235/236 of human phospho S6 Ribosomal Protein

### Description

Ribosomal protein S6 kinase is one of two parallel signaling pathways downstream of mTOR, with the other being 4E-BP1. mTOR phosphorylates and activates S6 kinase, which then phosphorylates ribosomal protein S6. The pathway regulates cell growth and cell cycle progression. The identified phosphorylation sites of S6 are Ser235, Ser236, Ser240, Ser244, and Ser247, which are evolutionarily conserved in higher eukaryotes. Ser236 has been proposed as the primary phosphorylation site. Studies using S6 knockin mice, where all five phosphorylation site serine residues are replaced by alanine, have provided extensive detail on S6 function. These studies support the role phosphorylated S6 plays in regulation of cell size, glucose homeostasis, and protein synthesis.

### Product Info

<b>Amount :</b>	20 µl / 200 µl
<b>Content :</b>	1X PBS, 0.02% NaN <sub>3</sub> , 50% Glycerol, 0.1% BSA
<b>Storage condition :</b>	Store at -20°C. Avoid repeated freeze and thaw cycles.

### Application Note

1 µg/mL - 0.001 µg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information. (0.5mg/ml, more than 200 western blots)

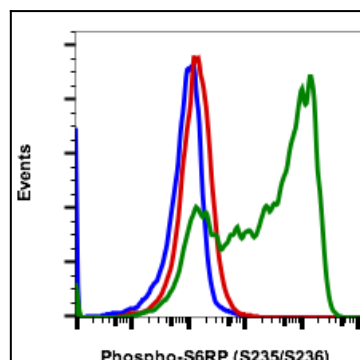


Fig-1: Flow cytometric analysis of U937 cells secondary antibody only negative control (blue) or treated with U0126 plus SB20350 (red) or treated with TPA plus calyculin A (green) using Phospho-S6 ribosomal protein (Ser235/Ser236) antibody S6S235S236-R3A2.

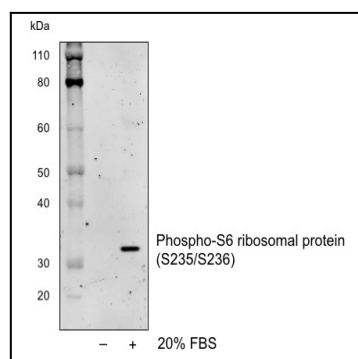


Fig 2 : Western blot analysis of NIH3T3 cell extract untreated or treated with 20% FBS using Phospho-S6 ribosomal protein (Ser235/Ser236) antibody S6S235S236-R3A2.

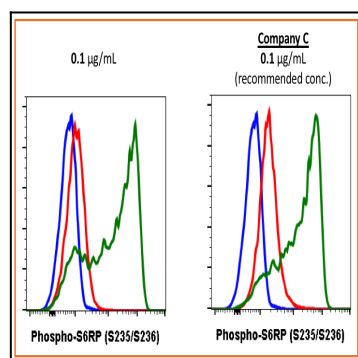


Fig-3: Flow cytometric analysis of U937 cells, secondary antibody only negative control (blue) or treated with U0126 + SB20350 (red) or with TPA + calyculin A (green) using Phospho-S6 ribosomal protein (Ser235/Ser236) antibody S6S235S236-R3A2 or Company C antibody at 0.1µg/mL (manufacturer's recommended concentration).