

## Product Data Sheet: Purified anti-phospho-S6 Ribosomal Protein (Ser235/236) rabbit mAb

<b>Catalog Number:</b>	1191
<b>Clone:</b>	S6S235S236-R3A2
<b>Isotype:</b>	Rabbit IgG1κ
<b>Immunogen:</b>	A synthetic phospho-peptide corresponding to residues surrounding Ser235/236 of human phospho S6 Ribosomal Protein
<b>Reactivity:</b>	Mouse, Human
<b>Cross Reactivity:</b>	Predicted to work with mouse, rat, and other homologues.
<b>Preparation:</b>	Protein A+G
<b>Formulation:</b>	1X PBS, 0.02% NaN <sub>3</sub> , 50% Glycerol, 0.1% BSA
<b>Applications:</b>	WB, Flow Cytometry
<b>Recommended Usage:</b>	1.0 - 0.1 µg/ml. Optimum concentration should be determined by the user.
<b>Product Configuration:</b>	200 ul (0.5mg/ml, more than 200 western blots)
<b>Detection:</b>	Anti-Rabbit IgG

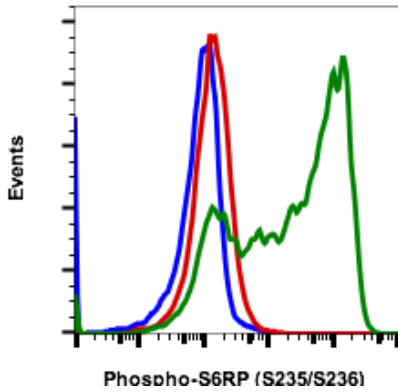
### Description

Mammalian ribosomal proteins comprise multigene families that consist predominantly of multiple processed pseudogenes and one functional intron-containing gene within their coding regions. Growth factors and mitogens induce the activation of p70 S6 kinase and the subsequent phosphorylation of the S6 ribosomal protein (40S ribosomal protein phospho S6, Phosphoprotein NP33, RPS6). Phosphorylation of S6 ribosomal protein correlates with an increase in translation of mRNA transcripts that contain an oligopyrimidine tract in their 5' untranslated regions. S6 phosphorylation is stimulated by growth factors, tumor promoting agents and mitogens. It is dephosphorylated at growth arrest. Important S6 ribosomal protein phosphorylation sites include several residues (Ser235, Ser236, Ser240, and Ser244) located within a small, carboxy-terminal region of the phospho S6 protein.

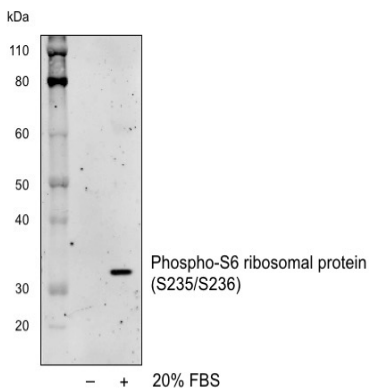
### References

- 1) Magnuson et al. (2012) Biochemical Journal 441 (1): 1–21.
- (2) Ruvinsky et al. (2006) Trends in Biological Sciences 31(6): 342–348.

### Purified anti-phospho-S6 Ribosomal Protein (Ser235/236) rabbit mAb Images



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. Cat. #1191.



Western blot analysis of NIH3T3 cell extract, untreated or treated with 20% FBS using Phospho-S6 ribosomal protein (Ser235/Ser236) antibody S6S235S236-R3A2. Cat. #1191.