

## DESCRIPTION

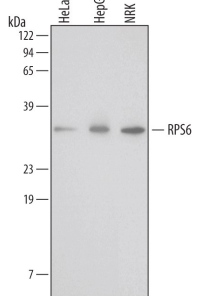
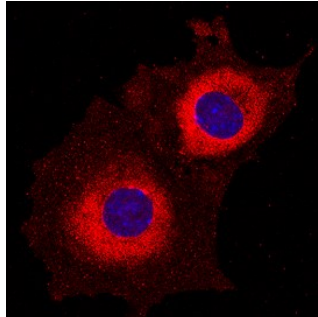
<b>Species Reactivity</b>	Human/Mouse/Rat
<b>Specificity</b>	The antibody detects endogenous human, mouse and rat RPS6 in Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 522731
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human RPS6 Met1-Lys249 Accession # P62753
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
<b>Western Blot</b>	0.25 µg/mL	See Below
<b>Immunocytochemistry</b>	8-25 µg/mL	See Below

## DATA

<p><b>Western Blot</b></p>  <p><b>Detection of Human and Rat Ribosomal Protein S6 by Western Blot.</b> Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, HepG2 human hepatocellular carcinoma cell line, and NRK rat normal kidney cell line. PVDF membrane was probed with 0.25 µg/mL of Mouse Anti-Human/Mouse/Rat Ribosomal Protein S6 Monoclonal Antibody (Catalog # MAB5436) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Ribosomal Protein S6 at approximately 32 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.</p>	<p><b>Immunocytochemistry</b></p>  <p><b>Ribosomal Protein S6/RPS6 in MM55K Mouse Cell Line.</b> Ribosomal Protein S6/RPS6 was detected in immersion fixed MM55K mouse kidney cell line using Mouse Anti-Human/Mouse/Rat Ribosomal Protein S6/RPS6 Monoclonal Antibody (Catalog # MAB5436) at 25 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for <a href="#">Fluorescent ICC Staining of Cells on Coverslips</a>.</p>
---	---

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

40S Ribosomal Protein S6 (RPS6) is the major substrate of protein kinases, particularly p70 S6 kinase, in eukaryotic ribosomes. RPS6 phosphorylation at S235, S236, S240, and S244 upregulates the translation of mRNAs containing an oligopyrimidine tract at their transcriptional start sites. This phosphorylation is stimulated by growth factors, tumor promoting agents, and other mitogens. RPS6 is dephosphorylated during growth arrest.