

## Anti-Phospho-S6 Ribosomal Protein (Ser240, 244) Antibody (9Q516)

### Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human; Species predicted to react based on 100% sequence homology: Mouse
Conjugation:	Unconjugated
Clone:	9Q516
Purification:	Protein A

### Applications

Verified Activity:	<ol style="list-style-type: none"><li>1. 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.</li><li>2. Immunohistochemical analysis of paraffin-embedded human carcinoma of sigmoid tissue, untreated (left) or lambda phosphatase-treated (right), using Recombinant Phospho-S6 Ribosomal Protein (Ser240/244) Antibody, Rabbit Monoclonal at 1:2000 dilution.</li><li>3. 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. (Validation Experiment)</li><li>4. Western blot analysis of extracts from serum-starved HEK293, untreated (line A); treated with FBS(20%, 30min) (line B); treated with FBS and <math>\lambda</math>-phosphatase (line C) using Phospho-S6 Ribosomal Protein (Ser240, 244) rabbit monoclonal Antibody at 1:5000 dilution. (Validation Experiment)</li><li>5. 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. (Validation Experiment)</li></ol>
Application:	IHC-P,WB
Recommended	WB: 1:1000-1:5000; IHC-P: 1:1000-1:5000

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen:	A synthetic peptide corresponding to residues around (Ser240, 244) of Human Phospho-S6 Ribosomal Protein.
Antigen Species:	Human
Synonyms:	p-S6 Ribosomal Protein (S240, 244);S6 Ribosomal Protein (p-Ser240, 244);S6 Ribosomal Protein (p-S240, 244);Phospho-S6 Ribosomal Protein (S240, 244);p-S6 Ribosomal Protein (Ser240, 244);OK/SW-cl.2;S6;eS6

### Research Background

Ribosomal protein S6 (rpS6), a component of the 40S ribosomal subunit, is involved in multiple cellular bioactivities. RPS6 is a downstream substrate of PI3K/Akt/mTOR/ kinase and MAPK kinase pathways and its dephosphorylation is also triggered by DNA double-strand breaks. The ribosomal protein S6 (RPS6) is a downstream component of the signaling mediated by the target of rapamycin (TOR) kinase that acts as a central regulator of the key metabolic processes, such as protein translation and ribosome biogenesis, in response to various environmental cues. mTORC1/rpS6 signaling complex promoted Sertoli blood-testis barrier (BTB) remodeling by perturbing Sertoli cell-cell adhesion site known as the basal ectoplasmic specialization (ES). mTORC1/rpS6 complex also promoted disruption of spermatid adhesion at the Sertoli-spermatid interface called the apical ES.

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