

Anti-Phospho-S6 Ribosomal Protein (Ser235, 236) Antibody (1E580)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human; Species predicted to react based on 100% sequence homology: mouse
Conjugation:	Unconjugated
Clone:	1E580
Purification:	Protein A

Applications

Verified Activity:	<ol style="list-style-type: none"> Western blot analysis of extracts from serum-starved Hek293, untreated (-) or treated with IGF1 (100ng/ml, 15min; +), using Phospho-S6 Ribosomal Protein (Ser235, 236) rabbit Monoclonal Antibody at 1:1000 dilution (upper) or anti-S6 Ribosomal Protein antibody (lower) at 1:1000 dilution. Western blot analysis of extracts from serum-starved HEK293, treated with IGF1 (100 ng/mL, 15min), without peptide (line A) or antigen-specific phosphopeptide (line B) or antigen-specific peptide (line C) using Phospho-S6 Ribosomal (Ser235, 236) rabbit monoclonal Antibody at 1:1000 dilution. (Validation Experiment) Western blot analysis of extracts from serum-starved HEK293, treated with IGF1 (100ng/mL, 15min) (line A); treated with IGF1 and λ-phosphatase (line B) using Phospho-S6 Ribosomal (Ser235, 236) rabbit monoclonal Antibody at 1:1000 dilution. (Validation Experiment)
Application:	WB
Recommended	WB: 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 (Ser235, 236) of Human Phospho-S6 Ribosomal Protein
Antigen Species:	Human
Synonyms:	eS6;p-S6 Ribosomal Protein (Ser235, 236);Phospho-S6 Ribosomal Protein (S235, 236);S6 Ribosomal Protein (p-S235, 236);S6;S6 Ribosomal Protein (p-Ser235, 236);p-S6 Ribosomal Protein (S235, 236);OK/SW-cl.2

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-

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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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