Data Sheet (Cat.No.TMAB-11245)

TargetMol

Anti-Phospho-RPS6 (Ser235/Ser236) Antibody (1R109)

Product Details

Ig Type:	IgG1
Reactivity:	Human
Molecular Weight:	Theoretical: 29 kDa. Actual: 32 kDa.
Clone:	1R109
Purification:	Protein G purified

Applications

Verified Activity:	MCF-7 (H) Serum starvation overnight, then grown in 20% FBS media for 30 min, 25 µg total protein per lane of cell lysates (see on figure) probed with Phospho-RPS6 (Ser235/Ser236) monoclonal antibody, unconjugated (TMAB-11245) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r. T. for 60 min.
Application:	WB
Recommended	WB: 1:500-2000

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.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated Synthesised phosphopeptide: human RPS6 around the phosphorylation site of Ser235/236
Antigen Species:	Human
Gene ID:	6194
Uniprot ID:	P62753

Research Background

Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a cytoplasmic ribosomal protein that is a component of the 40S subunit. The protein belongs to the S6E family of ribosomal proteins. It is the major substrate of protein kinases in the ribosome, with subsets of five C-terminal serine residues phosphorylated by different protein kinases. Phosphorylation is induced by a wide range of stimuli, including growth factors, tumor-promoting agents, and mitogens. Dephosphorylation occurs at growth arrest. The protein may contribute to the control of cell growth and proliferation through the selective translation of particular classes of mRNA. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. [provided by RefSeq, Jul 2008]

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