

Phospho-Ser244 Ribosomal Protein S6 Antibody
Affinity purified rabbit polyclonal antibody
Catalog # AN1252**Specification**

Phospho-Ser244 Ribosomal Protein S6 Antibody - Product Information

Application	WB
Primary Accession	P62754
Reactivity	Human, Mouse
Predicted	Chicken, Pig, Monkey, Rat, Xenopus, Zebrafish
Host	Rabbit
Clonality	polyclonal
Calculated MW	28 KDa

Phospho-Ser244 Ribosomal Protein S6 Antibody - Additional Information

Gene ID	20104
Gene Name	RPS6

Other Names

40S ribosomal protein S6, Phosphoprotein NP33, Rps6

Target/Specificity

Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser244 conjugated to KLH.

Dilution

WB~~ 1:1000

Format

Prepared from rabbit serum by affinity purification via sequential chromatography on phospho- and dephosphopeptide affinity columns.

Antibody Specificity

Specific for the ~28k rpS6 protein phosphorylated at Ser244

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Phospho-Ser244 Ribosomal Protein S6 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

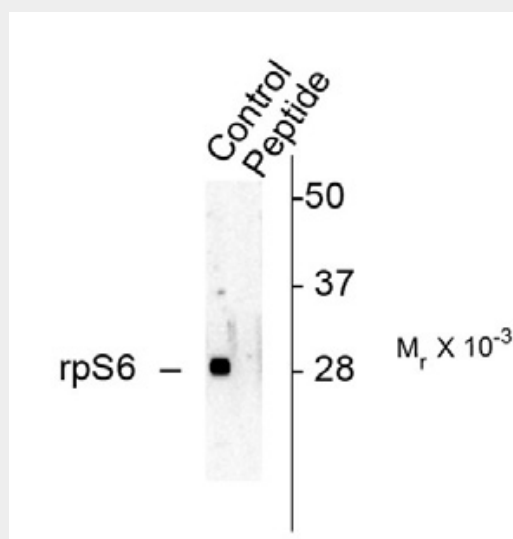
Blue Ice

Phospho-Ser244 Ribosomal Protein S6 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Phospho-Ser244 Ribosomal Protein S6 Antibody - Images



Western blot of Jurkat cell lysate showing specific immunolabeling of the ~28k rpS6 phosphorylated at Ser244 (Control). Phosphospecificity is shown in the second lane where immunolabeling is blocked by preadsorption of the phospho-peptide used as antigen (peptide) but not by the corresponding dephosphopeptide (not shown).

Phospho-Ser244 Ribosomal Protein S6 Antibody - Background

Ribosomal protein S6 (rpS6) is a critical component of the 40 S ribosomal subunit that mediates translation initiation at the 5'

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GpppG cap of mRNA. The rpS6 protein is both cytoplasmic and nuclear localized (Chen and Dittmer 2011). In response to mitogenic stimuli, rpS6 undergoes ordered C-terminal phosphorylation by p70 S6 kinases and p90 ribosomal S6 kinases on four Ser residues (Ser-235, Ser-236, Ser-240, and Ser-244) whose modification potentiates rpS6 cap binding activity (Hutchinson et al., 2011). Additionally, rpS6 phosphorylation and function are highly regulated and have been implicated in the regulation of translational initiation and protein synthesis in response to extracellular stimuli such as TRAIL and gamma interferon (IFN-

Y
) , as well as upon activation of the
phosphatidylinositol 3-kinase (PI3K)-A
kt-mTOR pathway (Chen and Dittmer 2011).

Phospho-Ser244 Ribosomal Protein S6 Antibody - References

Chen W and Dittmer D (2011) Ribosomal protein S6 (RPS6) interacts with the latency-associated nuclear antigen (LANA) of Kaposi sarcoma associated herpesvirus (KSHV). J. Virol. 18 9495-9505
Fumagalli S. and Thomas, G. (2000). S6 phosphorylation and signal transduction. In Translational control of gene expression (eds. N. Sonenberg et al.), pp. 695-717. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY.
Hutchinson JA, Shanware NP, Chang H, Tibbetts RS . (2011)
) Regulation of ribosomal protein S6 phosphorylation by casein kinase 1 and protein phosphatase 1. J Biol Chem 10:8688-96