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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

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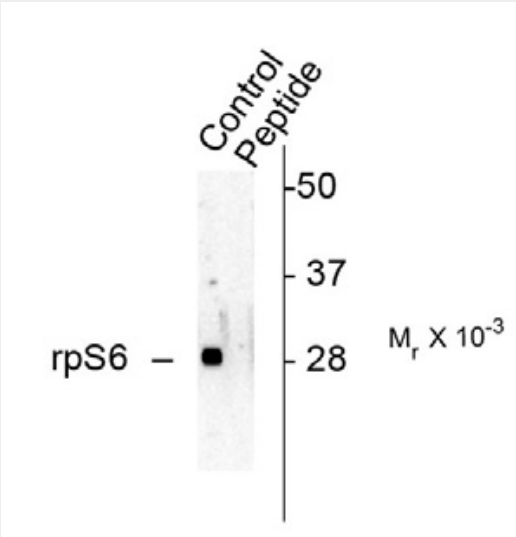
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Phospho-Ser244 Ribosomal Protein S6 Antibody - Images



Western blot of Jurkat cell lysate showing specific immunolabeling of the ~28k rpS6phosphorylated at Ser244 (Control). Phosphospecificity is shown in the second lanewhere immunolabeling is blocked by preadsorption of the phospho-peptide used asantigen (peptide) but not by the corresponding dephosphopeptide (not shown).

Phospho-Ser244 Ribosomal Protein S6 Antibody - Background

Ribosomal protein S6 (rpS6) is a crit
ical component of the 40 S ribosomal
subunit that mediates translation initiation at the 5
′
-m
7
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-

γ
), 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
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Hutchinson JA, Shanware NP, Chang H, Tibbetts RS
. (2011
) Regulation of ribosomal protein S6
phosphorylation by casein kinase 1 and prot
ein phosphatase 1. J Biol Chem 10:8688-96