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Datasheet for 600-401-X26

Ribosomal protein S6 Phospho S244 Antibody

Overview

Description:	Anti-Ribosomal protein S6 pS244 (RABBIT) Antibody - 600-401-X26
Item No.:	600-401-X26
Size:	100 µL
Applications:	WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	Ribosomal protein S6 (rpS6) is a critical component of the 40 S ribosomal subunit that mediates translation initiation at the 5'-m7GpppG cap of mRNA. The rpS6 protein is both cytoplasmic and nuclear localized . 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. 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)–Akt–mTOR pathway. Ribosomal Protein S6 pS244 Antibody is ideal for researchers interested in neuroscience research.
Synonyms:	40S ribosomal protein S6, Phosphoprotein NP33, rpS6
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Rps6
Reactivity:	Human, Mouse
PTM Specificity:	Phosphorylation

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Phospho-Ser244 Ribosomal Protein S6 Antibody was produced in rabbits by repeated immunizations with a synthetic phospho-peptide corresponding to amino acid residues surrounding the phospho-Ser244 of mouse rpS6 conjugated to KLH.
Purity/Specificity:	Anti-Phospho-Ser244 Ribosomal Protein S6 Antibody is directed against Ribosomal Protein S6 phosphorylated at S244. The antibody was prepared from monospecific antiserum by immunoaffinity chromatography using phospho peptide coupled to agarose beads followed by solid phase adsorption(s) against non-phospho peptide and non-specific peptide to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum. Reactivity against Ribosomal Protein S6 occurs from mouse sources. However, reactivity is also expected against chicken, guinea pig, non-human primate, rat, Xenopus, and zebrafish based on 100% sequence homology.
Relevant Links:	• UniProtKB - P62754 • GeneID - 20104 • NCBI - NP_033122.1

Application Details

Tested Applications:	WB
Application Note:	Anti-Ribosomal Protein S6 pS244 Antibody is tested for Western Blots and is specific for the ~28 kDa rpS6 protein phosphorylated at Ser244. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
WB:	1:1000

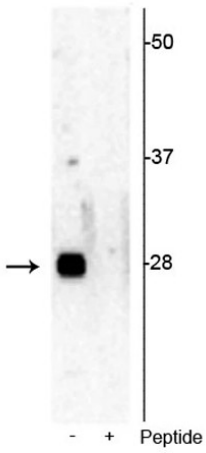
Formulation

Physical State:	Liquid (sterile filtered)
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Preservative:	None
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at -20° C prior to opening in undiluted aliquots. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western blot of Anti-Ribosomal protein S6 pS244 Antibody. Jurkat cell lysate showing specific immunolabeling of the ~28 kDa rpS6 phosphorylated at Ser244 in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is blocked by preadsorption of the phosphopeptide used as antigen, but not by the corresponding non-phosphopeptide (not shown).

Disclaimer

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