

Datasheet for ABIN1881764
anti-RPS6 antibody (N-Term)



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Overview

Quantity:	400 µL
Target:	RPS6
Binding Specificity:	AA 1-30, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RPS6 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This RPS6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human RPS6.
Clone:	RB41661
Isotype:	Ig Fraction
Predicted Reactivity:	B, Pr, M, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	RPS6
Alternative Name:	RPS6 (RPS6 Products)

Target Details

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.
Molecular Weight:	28681
NCBI Accession:	NP_001001
UniProt:	P62753
Pathways:	Carbohydrate Homeostasis , Ribonucleoprotein Complex Subunit Organization , Ribosome Assembly

Application Details

Application Notes:	WB: 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

Publications

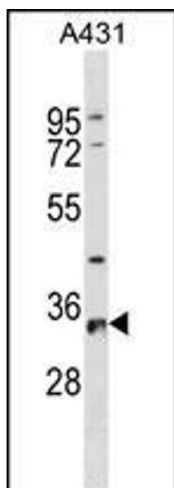
Product cited in: Glover, Oates, Tang, Moore, Tarnopolsky, Phillips: "Resistance exercise decreases eIF2Bepsilon phosphorylation and potentiates the feeding-induced stimulation of p70S6K1 and rpS6 in young men." in: **American journal of physiology. Regulatory, integrative and comparative physiology**, Vol. 295, Issue 2, pp. R604-10, (2008) ([PubMed](#)).

Maggi, Kuchenruether, Dadey, Schwoppe, Grisendi, Townsend, Pandolfi, Weber: "Nucleophosmin serves as a rate-limiting nuclear export chaperone for the Mammalian ribosome." in: **Molecular and cellular biology**, Vol. 28, Issue 23, pp. 7050-65, (2008) ([PubMed](#)).

Fujita, Ito, Nakano, Kinoshita, Wate, Kusaka: "Immunohistochemical identification of messenger RNA-related proteins in basophilic inclusions of adult-onset atypical motor neuron disease." in: **Acta neuropathologica**, Vol. 116, Issue 4, pp. 439-45, (2008) ([PubMed](#)).

Robledo, Idol, Crimmins, Ladenson, Mason, Bessler: "The role of human ribosomal proteins in the maturation of rRNA and ribosome production." in: **RNA (New York, N.Y.)**, Vol. 14, Issue 9, pp. 1918-29, (2008) ([PubMed](#)).

Images



Western Blotting

Image 1. RPS6 Antibody (N-term) (ABIN1881764 and ABIN2839026) western blot analysis in A431 cell line lysates (35 µg/lane). This demonstrates the RPS6 antibody detected the RPS6 protein (arrow).