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# Datasheet for ABIN6257407 anti-RPS6KB1 antibody (C-Term)

Images 4



# Overview

Quantity:	100 µL
Target:	RPS6KB1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RPS6KB1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

# Product Details

Immunogen:	A synthesized peptide derived from human p70 S6 Kinase, corresponding to a region within C-terminal amino acids.
Isotype:	lgG
Specificity:	P70 S6 Kinase Antibody detects endogenous levels of total p70 S6 Kinase.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog,Chicken,Xenopus
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink <sup>TM</sup> Coupling Resin (Thermo Fisher Scientific).

# Target Details

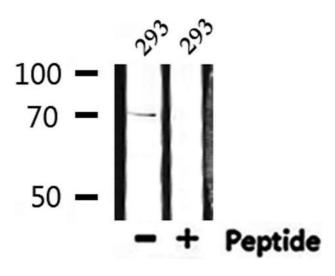
Target:	RPS6KB1
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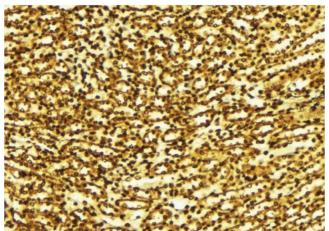
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Target Details	
Alternative Name:	RPS6KB1 (RPS6KB1 Products)
Background:	Description: Serine/threonine-protein kinase that acts downstream of mTOR signaling in
	response to growth factors and nutrients to promote cell proliferation, cell growth and cell cycl
	progression. Regulates protein synthesis through phosphorylation of EIF4B, RPS6 and EEF2K,
	and contributes to cell survival by repressing the pro-apoptotic function of BAD. Under
	conditions of nutrient depletion, the inactive form associates with the EIF3 translation initiation
	complex. Upon mitogenic stimulation, phosphorylation by the mammalian target of rapamycin
	complex 1 (mTORC1) leads to dissociation from the EIF3 complex and activation. The active
	form then phosphorylates and activates several substrates in the pre-initiation complex,
	including the EIF2B complex and the cap-binding complex component EIF4B. Also controls
	translation initiation by phosphorylating a negative regulator of EIF4A, PDCD4, targeting it for
	ubiquitination and subsequent proteolysis. Promotes initiation of the pioneer round of protein
	synthesis by phosphorylating POLDIP3/SKAR. In response to IGF1, activates translation
	elongation by phosphorylating EEF2 kinase (EEF2K), which leads to its inhibition and thus
	activation of EEF2. Also plays a role in feedback regulation of mTORC2 by mTORC1 by
	phosphorylating RICTOR, resulting in the inhibition of mTORC2 and AKT1 signaling. Mediates
	cell survival by phosphorylating the pro-apoptotic protein BAD and suppressing its pro-
	apoptotic function. Phosphorylates mitochondrial URI1 leading to dissociation of a URI1-
	PPP1CC complex. The free mitochondrial PPP1CC can then dephosphorylate RPS6KB1 at Thr-
	412, which is proposed to be a negative feedback mechanism for the RPS6KB1 anti-apoptotic
	function. Mediates TNF-alpha-induced insulin resistance by phosphorylating IRS1 at multiple
	serine residues, resulting in accelerated degradation of IRS1. In cells lacking functional TSC1-2
	complex, constitutively phosphorylates and inhibits GSK3B. May be involved in cytoskeletal
	rearrangement through binding to neurabin. Phosphorylates and activates the pyrimidine
	biosynthesis enzyme CAD, downstream of MTOR (PubMed:11500364, PubMed:12801526,
	PubMed:14673156, PubMed:15071500, PubMed:15341740, PubMed:16286006,
	PubMed:17052453, PubMed:17053147, PubMed:17936702, PubMed:18952604,
	PubMed:19085255, PubMed:19720745, PubMed:19935711, PubMed:19995915,
	PubMed:23429703). Following activation by mTORC1, phosphorylates EPRS and thereby plays
	a key role in fatty acid uptake by adipocytes and also most probably in interferon-gamma-
	induced translation inhibition (PubMed:28178239).
	Gene: RPS6KB1
Molecular Weight:	70 kDa
Gene ID:	6198

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Target Details	
UniProt:	P23443
Pathways:	PI3K-Akt Signaling, RTK Signaling, AMPK Signaling, Regulation of Cell Size, Skeletal Muscle Fiber Development, Feeding Behaviour, G-protein mediated Events, Smooth Muscle Cell
	Migration, Interaction of EGFR with phospholipase C-gamma, Warburg Effect
Application Details	
Application Notes:	WB 1:500-1:1000, IHC: 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Format: Concentration:	Liquid 1 mg/mL
Concentration:	1 mg/mL Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 %
Concentration: Buffer:	1 mg/mL Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Concentration: Buffer: Preservative:	1 mg/mL   Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.   Sodium azide   This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
Concentration: Buffer: Preservative: Precaution of Use:	1 mg/mL   Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.   Sodium azide   This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.



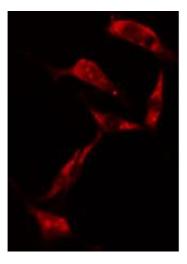


## Western Blotting

**Image 1.** Western blot analysis of extracts from 293, using S6K Antibody.

### Immunohistochemistry

**Image 2.** ABIN6274203 at 1/100 staining Human gastric tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



### Immunofluorescence (fixed cells)

**Image 3.** ABIN6274203 staining NIH-3T3 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody(Cat.# S0006), diluted at 1/600, was used as secondary antibody.

Please check the product details page for more images. Overall 4 images are available for ABIN6257407.

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