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Datasheet for ABIN967838

anti-RPS6KA1 antibody (AA 1-184)

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Overview

Quantity:	150 µg
Target:	RPS6KA1
Binding Specificity:	AA 1-184
Reactivity:	Human, Mouse, Rat, Dog, Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This RPS6KA1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF)

Product Details

Immunogen:	Human p90[rsk] aa. 1-184
Clone:	78-RSK
Isotype:	IgG2a
Cross-Reactivity:	Dog (Canine), Rat (Rattus), Mouse (Murine), Chicken
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

Product Details

Purification: The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target: RPS6KA1

Alternative Name: Rsk ([RPS6KA1 Products](#))

Background: The p90[rsk] (Rsk) and p70[s6k] kinases were first identified based on their ability to phosphorylate the 40S ribosomal protein S6 in vitro. Both of these enzymes are differentially regulated by serine/threonine phosphorylation in response to mitogenic stimulation. ERK1 and ERK2 have been shown to regulate Rsk activity. Once activated by this phosphorylation, a significant amount of Rsk can be found in the nucleus, suggesting that it has a role in nuclear signaling events. The regulation of nuclear Rsk and ERK activities by growth factors is coordinated with the induction of several early response genes. Rsk has also been shown to be activated by ionizing radiation, presumably through an activated MAP kinase. Studies in *Xenopus* oocytes and mouse NIH/3T3 cells indicate that inactive Rsk and ERK2 exist in a complex of approximately 110kDa. Upon phosphorylation of Rsk and ERK2, the heterodimer dissociates and at least a portion of these activated kinases translocate to the nucleus.

Molecular Weight: 90 kDa

Pathways: [MAPK Signaling](#), [Neurotrophin Signaling Pathway](#), [Activation of Innate immune Response](#), [Toll-Like Receptors Cascades](#)

Application Details

Comment: Related Products: ABIN968533, ABIN967389

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 250 µg/mL

Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

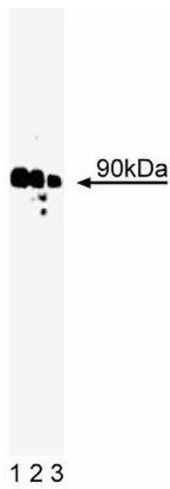
should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store undiluted at -20° C.

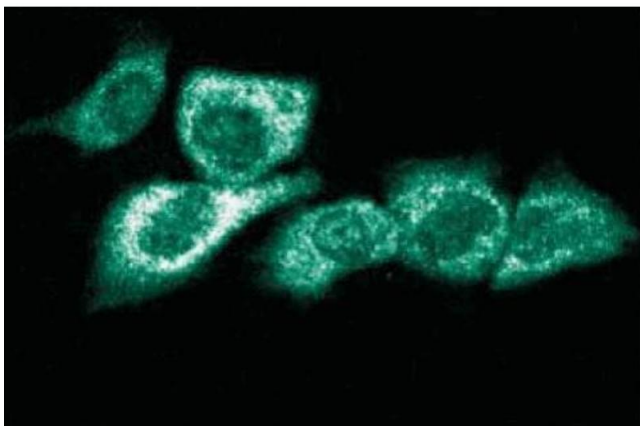
Publications

- Product cited in:
- Moor, Gan, Karmazyn, Fliegel: "Activation of Na⁺/H⁺ exchanger-directed protein kinases in the ischemic and ischemic-reperfused rat myocardium." in: **The Journal of biological chemistry**, Vol. 276, Issue 19, pp. 16113-22, (2001) ([PubMed](#)).
- Morrione, Navarro, Romano, Dews, Reiss, Valentinis, Belletti, Baserga: "The role of the insulin receptor substrate-1 in the differentiation of rat hippocampal neuronal cells." in: **Oncogene**, Vol. 20, Issue 35, pp. 4842-52, (2001) ([PubMed](#)).
- Majka, Janowska-Wieczorek, Ratajczak, Kowalska, Vilaire, Pan, Honczarenko, Marquez, Poncz, Ratajczak: "Stromal-derived factor 1 and thrombopoietin regulate distinct aspects of human megakaryopoiesis." in: **Blood**, Vol. 96, Issue 13, pp. 4142-51, (2000) ([PubMed](#)).
- Hsiao, Chou, Shih, Ferrell: "Evidence that inactive p42 mitogen-activated protein kinase and inactive Rsk exist as a heterodimer in vivo." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 91, Issue 12, pp. 5480-4, (1994) ([PubMed](#)).
- Chung, Pelech, Blenis: "Mitogen-activated Swiss mouse 3T3 RSK kinases I and II are related to pp44mpk from sea star oocytes and participate in the regulation of pp90rsk activity." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 88, Issue 11, pp. 4981-5, (1991) ([PubMed](#)).



Western Blotting

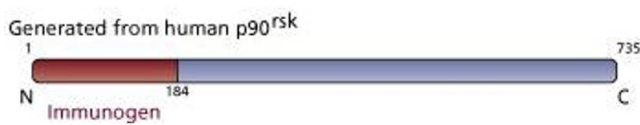
Image 1. Western blot analysis of Rsk on A431 cell lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of anti-Rsk antibody.



Immunofluorescence

Image 2. Immunofluorescent staining of Hs 766T cells.

Image 3.



Please check the [product details page](#) for more images. Overall 4 images are available for ABIN967838.