

Datasheet for ABIN7168188
anti-MSK1 antibody (AA 224-367)[Go to Product page](#)

4 Images

Overview

Quantity:	100 µg
Target:	MSK1 (RPS6KA5)
Binding Specificity:	AA 224-367
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MSK1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Ribosomal protein S6 kinase alpha-5 protein (224-367AA)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	>95%, Protein G purified

Target Details

Target:	MSK1 (RPS6KA5)
Alternative Name:	RPS6KA5 (RPS6KA5 Products)
Background:	Background: Serine/threonine-protein kinase that is required for the mitogen or stress-induced phosphorylation of the transcription factors CREB1 and ATF1 and for the regulation of the

Target Details

transcription factors RELA, STAT3 and ETV1/ER81, and that contributes to gene activation by histone phosphorylation and functions in the regulation of inflammatory genes. Phosphorylates CREB1 and ATF1 in response to mitogenic or stress stimuli such as UV-C irradiation, epidermal growth factor (EGF) and anisomycin. Plays an essential role in the control of RELA transcriptional activity in response to TNF and upon glucocorticoid, associates in the cytoplasm with the glucocorticoid receptor NR3C1 and contributes to RELA inhibition and repression of inflammatory gene expression. In skeletal myoblasts is required for phosphorylation of RELA at 'Ser-276' during oxidative stress. In erythropoietin-stimulated cells, is necessary for the 'Ser-727' phosphorylation of STAT3 and regulation of its transcriptional potential. Phosphorylates ETV1/ER81 at 'Ser-191' and 'Ser-216', and thereby regulates its ability to stimulate transcription, which may be important during development and breast tumor formation. Directly represses transcription via phosphorylation of 'Ser-1' of histone H2A. Phosphorylates 'Ser-10' of histone H3 in response to mitogenics, stress stimuli and EGF, which results in the transcriptional activation of several immediate early genes, including proto-oncogenes c-fos/FOS and c-jun/JUN. May also phosphorylate 'Ser-28' of histone H3. Mediates the mitogen- and stress-induced phosphorylation of high mobility group protein 1 (HMGN1/HMG14). In lipopolysaccharide-stimulated primary macrophages, acts downstream of the Toll-like receptor TLR4 to limit the production of pro-inflammatory cytokines. Functions probably by inducing transcription of the MAP kinase phosphatase DUSP1 and the anti-inflammatory cytokine interleukin 10 (IL10), via CREB1 and ATF1 transcription factors. Plays a role in neuronal cell death by mediating the downstream effects of excitotoxic injury.

Aliases: 90 kDa ribosomal protein S6 kinase 5 antibody, EC 2.7.11.1 antibody, KS6A5_HUMAN antibody, MGC1911 antibody, Mitogen and stress activated protein kinase 1 antibody, MSPK1 antibody, Nuclear Mitogen And Stress Activated Protein Kinase 1 antibody, Nuclear mitogen- and stress-activated protein kinase 1 antibody, Ribosomal protein S6 kinase 90kD polypeptide 5 antibody, Ribosomal protein S6 kinase 90 kDa antibody, Ribosomal protein S6 kinase 90 kDa polypeptide 5 antibody, Ribosomal Protein S6 Kinase Alpha 5 antibody, Ribosomal protein S6 kinase alpha-5 antibody, RLPK antibody, RPS6KA5 antibody, RSK Like Protein Kinase antibody, RSK-like protein kinase antibody, RSKL antibody, S6K alpha 5 antibody, S6K-alpha-5 antibody

UniProt: [O75582](#)

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

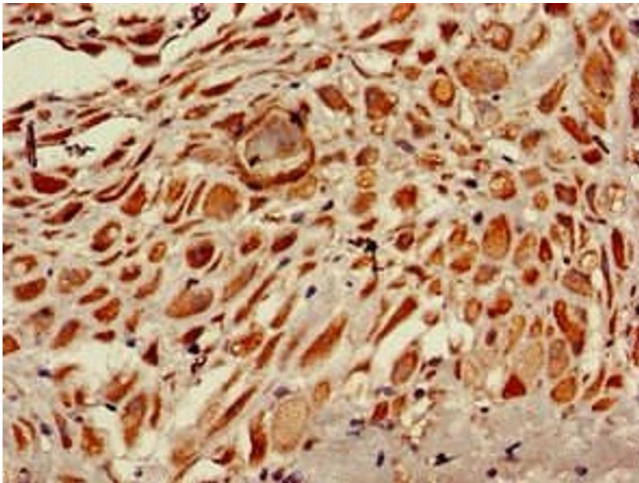
Application Details

Application Notes: Recommended dilution: WB:1:500-1:5000, IHC:1:20-1:200, IF:1:50-1:200,

Application Details

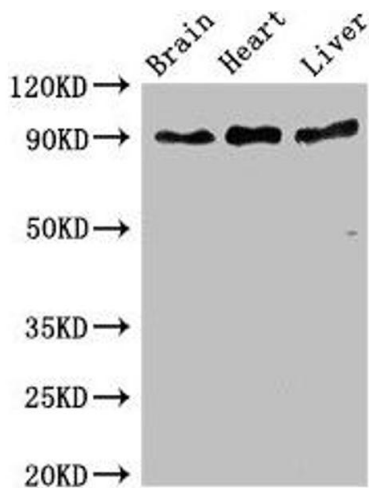
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human placenta tissue using ABIN7168188 at dilution of 1:100



Western Blotting

Image 2. Western Blot Positive WB detected in: Mouse brain tissue, Rat heart tissue, Rat liver tissue All lanes: RPS6KA5 antibody at 3 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 90, 62, 82 kDa Observed band size: 90 kDa



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human thyroid tissue using ABIN7168188 at dilution of 1:100

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7168188.