Datasheet for ABIN7138867

anti-MSK2 antibody (pThr568)

2 Images

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Overview

Quantity:	100 µL
Target:	MSK2 (RPS6KA4)
Binding Specificity:	pThr568
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MSK2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Peptide sequence around phosphorylation site of threonine 568 (M-Q-T(p)-P-C) derived from Human MSK2.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy usi

Target Details

Target:	MSK2 (RPS6KA4)
Alternative Name:	RPS6KA4 (RPS6KA4 Products)

Target Details

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 transcription factor RELA, 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. 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. Aliases: 90 kDa ribosomal protein S6 kinase 4 antibody, EC 2.7.11.1 antibody, KS6A4_HUMAN antibody, Mitogen and stress activated protein kinase 2 antibody, Nuclear mitogen and stress activated protein kinase 2 antibody, Nuclear mitogen- and stress-activated protein kinase 2 antibody, Ribosomal protein kinase B antibody, Ribosomal protein S6 kinase 90kD polypeptide 4 antibody, Ribosomal protein S6 kinase 90 kDa polypeptide 4 antibody, Ribosomal protein S6 kinase alpha 4 antibody, Ribosomal protein S6 kinase alpha-4 antibody, RPS6KA4 antibody, RSKB antibody, S6K-alpha-4 antibody
UniProt:	O75676

Application Details

Application Notes:	WB:1:500-1:3000, IHC:1:50-1:100,
Restrictions:	For Research Use only

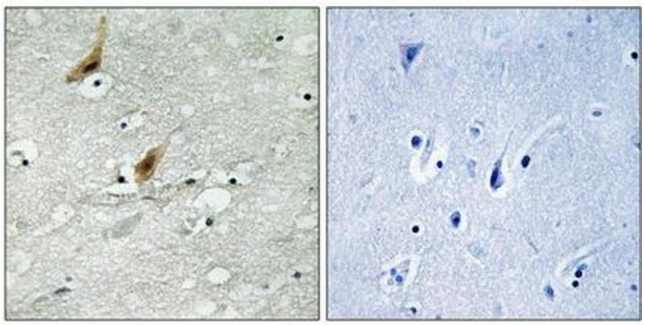
Handling

Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide

Handling

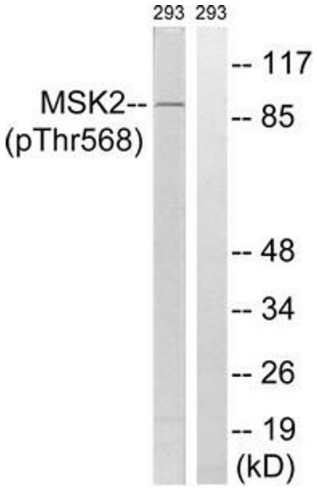
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

Image 1. Immunohistochemistry analysis of paraffin-embedded human brain tissue using MSK2 (Phospho-Thr568) antibody. The picture on the right is treated with the synthesized peptide.



Western Blotting

Image 2. Western blot analysis of extracts from 293 cells, treated with H2O2 (100uM, 15 mins), using MSK2 (Phospho-Thr568) antibody. The lane on the right is treated with the synthesized peptide.