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Datasheet for ABIN6255276 anti-MSK1 antibody (pSer376)

2 Images



Overview

Quantity:	100 µL
Target:	MSK1 (RPS6KA5)
Binding Specificity:	pSer376
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MSK1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human MSK1 around the phosphorylation site of Ser376.
Isotype:	IgG
Specificity:	Phospho-MSK1 (Ser376) Antibody detects endogenous levels of MSK1 only when phosphorylated at Serine 376.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog,Chicken,Xenopus
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

Target Details

Target:

MSK1 (RPS6KA5)

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Target Details	
Alternative Name:	RPS6KA5 (RPS6KA5 Products)
Background:	Description: 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 factors RELA, STAT3 and ETV1/ER81, and that contributes to gene activation by
	histone phosphorylation and functions in the regulation of inflammatory genes
	(PubMed:11909979, PubMed:12569367, PubMed:12763138, PubMed:9687510,
	PubMed:18511904, PubMed:9873047). Phosphorylates CREB1 and ATF1 in response to
	mitogenic or stress stimuli such as UV-C irradiation, epidermal growth factor (EGF) and
	anisomycin (PubMed:11909979, PubMed:9873047). 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 (PubMed:12628924, PubMed:18511904). In
	skeletal myoblasts is required for phosphorylation of RELA at 'Ser-276' during oxidative stress
	(PubMed:12628924). In erythropoietin-stimulated cells, is necessary for the 'Ser-727'
	phosphorylation of STAT3 and regulation of its transcriptional potential (PubMed:12763138).
	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 (PubMed:12569367). Directly represses transcription via phosphorylation of 'Ser-1' of
	histone H2A (PubMed:15010469). 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
	(PubMed:12773393). May also phosphorylate 'Ser-28' of histone H3 (PubMed:12773393).
	Mediates the mitogen- and stress-induced phosphorylation of high mobility group protein 1
	(HMGN1/HMG14) (PubMed:12773393). In lipopolysaccharide-stimulated primary
	macrophages, acts downstream of the Toll-like receptor TLR4 to limit the production of pro-
	inflammatory cytokines (By similarity). Functions probably by inducing transcription of the MA
	kinase phosphatase DUSP1 and the anti-inflammatory cytokine interleukin 10 (IL10), via CREB
	and ATF1 transcription factors (By similarity). Plays a role in neuronal cell death by mediating
	the downstream effects of excitotoxic injury (By similarity). Phosphorylates TRIM7 at 'Ser-107'
	in response to growth factor signaling via the MEK/ERK pathway, thereby stimulating its
	ubiquitin ligase activity (PubMed:25851810).
	Gene: RPS6KA5
Molecular Weight:	90kDa
Gene ID:	9252

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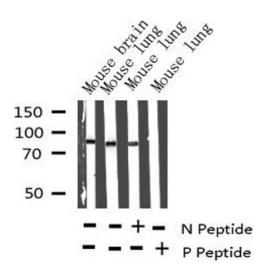
Target Details	
UniProt:	075582
Pathways:	MAPK Signaling, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Toll-Like Receptors Cascades
Application Details	

Application Notes:	WB 1:500-1:2000, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
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:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

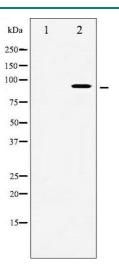
Images



Western Blotting

Image 1. Western blot analysis of Phospho-MSK1 (Ser376) expression in various lysates

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Western Blotting

Image 2. Western blot analysis of MSK1 phosphorylation expression in HeLa whole cell lysates,The lane on the left is treated with the antigen-specific peptide.

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