Datasheet for ABIN744008

anti-MSK1 antibody (pSer376)

1 Image

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Overview

Quantity:	100 µL
Target:	MSK1 (RPS6KA5)
Binding Specificity:	pSer376
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MSK1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human MSK1 around the phosphorylation site of Ser376 [GY(p-S)FV]
Isotype:	IgG
Cross-Reactivity:	Mouse
Predicted Reactivity:	Human,Rat,Dog,Cow,Pig,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	MSK1 (RPS6KA5)

Target Details

Alternative Name:	MSK1 (RPS6KA5 Products)
Background:	Synonyms: MSK1 Phospho Ser376, 90 kDa ribosomal protein S6 kinase 5, EC 2.7.11.1, KS6A5_HUMAN, MGC1911, Mitogen and stress activated protein kinase 1, MSPK1, Nuclear Mitogen And Stress Activated Protein Kinase 1, Nuclear mitogen- and stress-activated protein kinase 1, Ribosomal protein S6 kinase 90kD polypeptide 5, Ribosomal protein S6 kinase 90 kDa, Ribosomal protein S6 kinase 90 kDa polypeptide 5, Ribosomal Protein S6 Kinase Alpha 5, Ribosomal protein S6 kinase alpha-5, RLPK, RPS6KA5, RSK Like Protein Kinase, RSK-like protein kinase, RSKL, S6K alpha 5, S6K-alpha-5. Background: MSK1 is a mitogen and stress activated protein kinase 1 which belongs to the AGC family of kinases and is related in structure to the ribosomal p70 S6 kinase subfamily. MSK1 can be activated by ERK1/2 and SAPK2/p38 MAP kinase. It is also known to be required for the phosphorylation of CREB, ATF1 H3 and HMG14 in response to mitogen and stress. Similar to RSK, MSK1 contains two kinase domains (N term and a C term). Once phosphorylated on Thr581 and Ser360 by ERK1/2 and SAPK2/p38, MSK1 autophosphorylate on at least 5 sites. Of these autophosphorylation sites Ser212 and Ser376 get phosphorylated by the C terminal kinase domain of MSK1 which is essential for the catalytic activity of the N terminal kinase domain.
Gene ID:	9252
UniProt:	O75582
Pathways:	MAPK Signaling, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Toll-Like Receptors Cascades

Application Details

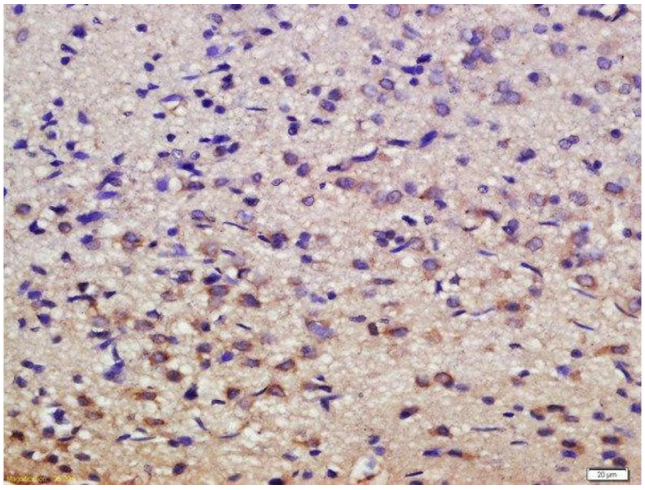
Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin embedded rat brain labeled with Rabbit Anti-MSK1 (Ser376) Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining