



Rabbit Anti-Human MSK1 monoclonal antibody, clone 5I26M62 (CABT-L1579)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	This antibody is predicted to react with Monkey, Pig, Rat, and Mouse.
Target	RPS6KA5
Immunogen	Peptides corresponding to human MSK1 [1) aa742-aa758, 2) aa773-aa792]
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	5I26M62
Purification	Protein A Purified
Conjugate	Unconjugated
Applications	ICC, IF, WB
Format	Liquid
Concentration	0.5 mg/ml
Buffer	PBS, pH 7.4
Preservative	0.09% Sodium Azide
Storage	-20°C, Avoid Freeze/Thaw Cycles

BACKGROUND

Introduction MSK-1 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. MSK-1 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 HMG-14 in response to mitogen and stress. Similar to RSK, MSK-1 contains two kinase domains (N-term and a C-term). Once phosphorylated on Thr581 and Ser360 by ERK1/2 and SAPK2/p38, MSK-1 autophosphorylate on at least 5 sites. Of these autophosphorylation sites Ser212 and Ser376 get phosphorylated by the C-terminal kinase domain of MSK-1 which is essential for the catalytic activity of the N-terminal kinase domain.

Keywords RPS6KA5;ribosomal protein S6 kinase, 90kDa, polypeptide 5;MSK1;RLPK;MSPK1;ribosomal protein S6 kinase alpha-5;RSKL;S6K-alpha-5;RSK-like protein kinase;90 kDa ribosomal protein S6 kinase 5;nuclear mitogen- and stress-activated protein kinase 1

GENE INFORMATION

Entrez Gene ID [9252](#)

UniProt ID [O75582](#)
