

## Anti-MSK1 Antibody (60517)

### Product Details

Ig Type:	IgG1, Kappa
Reactivity:	Human (predicted:Mouse)
Clone:	60517
Purification:	Protein G purified

### Applications

Verified Activity:	1. Cell line: A549
	Fixative: 4% Paraformaldehyde
	Permeabilization: 0.1% TritonX-100
	Primary ab dilution: 1:50
	Primary incubation condition: 4°C overnight
	Secondary ab: Goat Anti-Mouse IgG
	Nuclear counter stain: DAPI (Blue)
	Comment: Color green is the positive signal for TMAB-09036
	2. Blocking buffer: 5% NFDN/TBST
	Primary ab dilution: 1:1000
	Primary ab incubation condition: 2 hours at room temperature
	Secondary ab: Goat Anti-Mouse IgG H&L (HRP)
	Lysate: 1: MCF-7, 2: A549, 3: F9, 4: 293T
	Protein loading quantity: 20 µg
Exposure time: 60 s	
Predicted MW: 70 kDa	
Observed MW: 70 kDa	
Application:	WB,ICC/IF
Recommended	WB: 1:500-1000; ICC/IF: 1:100-500

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

### Antigen Details

Gene ID:	9252
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### Research 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 autophosphorylates 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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