

## MSK1 (phospho-Thr581) polyclonal antibody

Catalog: AP0095

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

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 autophosphorylates 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.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~ 90 kDa

### Swiss-Prot:

O75582

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 96% (by SDS-PAGE).

### Applications:

WB: 1:500~1:2000

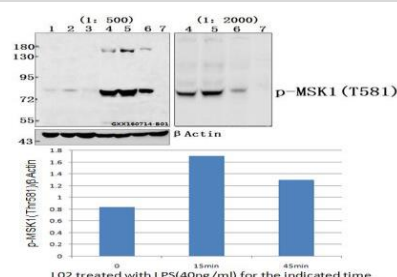
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

p-MSK1(Thr581) polyclonal antibody detects endogenous levels of MSK1 protein when phosphorylated at Thr581.

### DATA:



Western blot (WB) analysis of p-MSK1(Thr581) polyclonal antibody at 1:500 or 1:2000 dilution

Lane1:H9C2 treated with LPS(40ng/ml) for 45min whole cell lysate  
 Lane2:H9C2 treated with LPS(40ng/ml) for 15min whole cell lysate  
 Lane3:H9C2 treated with LPS(40ng/ml) for 5min whole cell lysate  
 Lane4:L02 treated with LPS(40ng/ml) for 45min whole cell lysate  
 Lane5:L02 treated with LPS(40ng/ml) for 15min whole cell lysate  
 Lane6:L02 whole cell lysate  
 Lane7:The Brain tissue lysate of Mouse(40ug)

### Note:

For research use only, not for use in diagnostic procedure.

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