

AP1372

Leader in Biomolecular Solutions for Life Science



# Phospho-p38 MAPK-Y182 Rabbit mAb

Catalog No.: AP1372

Recombinant

1 Publications

## Basic Information

### Observed MW

41kDa

### Calculated MW

41kDa

### Category

SMab Recombinant Monoclonal  
Antibody

### Applications

WB,IHC-P,IF/ICC,ELISA

### Cross-Reactivity

Human,Mouse,Rat

### CloneNo number

ARC58398

## Background

The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is activated by various environmental stresses and proinflammatory cytokines. The activation requires its phosphorylation by MAP kinase kinases (MKKs), or its autophosphorylation triggered by the interaction of MAP3K7IP1/TAB1 protein with this kinase. The substrates of this kinase include transcription regulator ATF2, MEF2C, and MAX, cell cycle regulator CDC25B, and tumor suppressor p53, which suggest the roles of this kinase in stress related transcription and cell cycle regulation, as well as in genotoxic stress response. Four alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.

## Recommended Dilutions

WB 1:5000 - 1:10000

IHC-P 1:200 - 1:800

IF/ICC 1:50 - 1:200

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

1432

### Swiss Prot

Q16539

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

RK; p38; CSBP; EXIP; Mxi2; CSBP1; CSBP2; CSPB1; PRKM14; PRKM15; SAPK2A; p38ALPHA; Phospho-p38 MAPK-Y182

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

### Storage

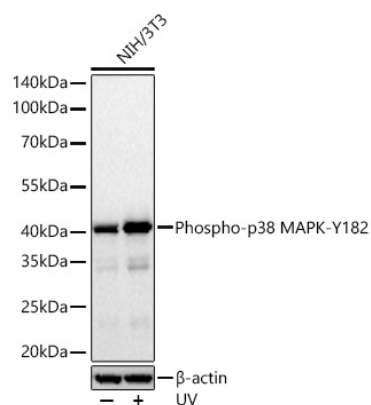
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

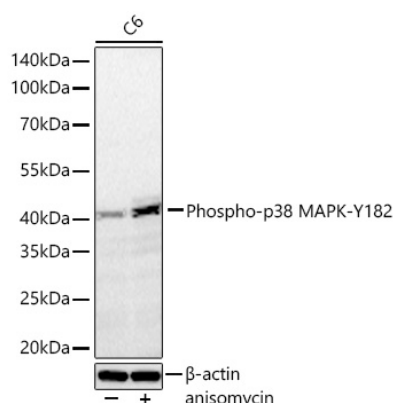
## Contact

[www.abclonal.com](http://www.abclonal.com)

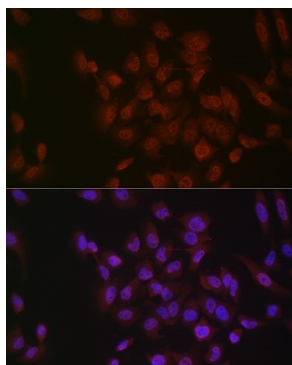
## Validation Data



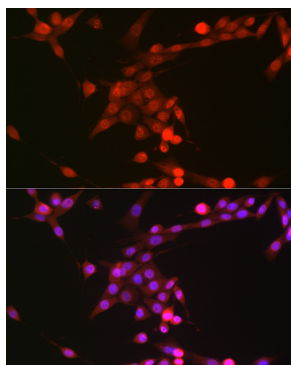
Western blot analysis of lysates from NIH/3T3 cells using Phospho-p38 MAPK-Y182 Rabbit mAb (AP1372) at 1:9000 dilution incubated overnight at 4°C. NIH/3T3 cells were treated with UV at room temperature for 15-30 minutes. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 30 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.



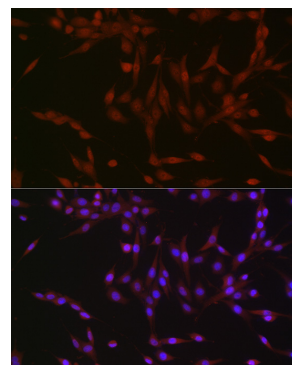
Western blot analysis of lysates from C6 cells using Phospho-p38 MAPK-Y182 Rabbit mAb (AP1372) at 1:9000 dilution incubated overnight at 4°C. C6 cells were treated with anisomycin (25 µg/mL) at 37°C for 30 minutes after. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 30 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.



Immunofluorescence analysis of HeLa using Phospho-p38 MAPK-Y182 Rabbit mAb (AP1372) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH/3T3 using Phospho-p38 MAPK-Y182 Rabbit mAb (AP1372) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of PC-12 using Phospho-p38 MAPK-Y182 Rabbit mAb (AP1372) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.