

# Phospho-p38 MAPK-T180/Y182 Rabbit pAb

Catalog No.: AP0297 **10 Publications**

## Basic Information

**Observed MW**

41kDa/43 kDa

**Calculated MW**

41kDa

**Category**

Primary antibody

**Applications**

WB, ELISA

**Cross-Reactivity**

Human, Mouse, Rat

## 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** 1:500 - 1:2000**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-T180/Y182

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

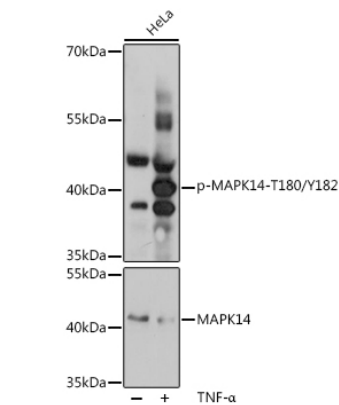
Affinity purification

**Storage**

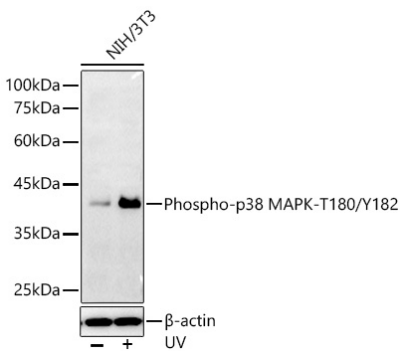
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

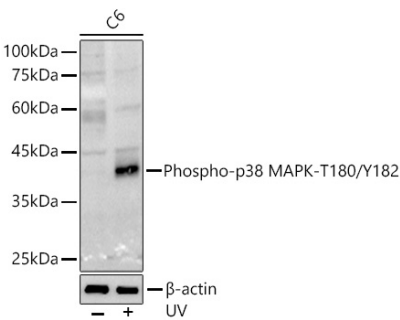
Validation Data



Western blot analysis of lysates from HeLa cells, using Phospho-MAPK14-T180/Y182 pAb (AP0297) at 1:2000 dilution or MAPK14 antibody (A14401). HeLa cells were treated with TNF- $\alpha$  (20 ng/mL) at 37°C for 30 minutes.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25 $\mu$ g per lane.  
Blocking buffer: 3% BSA.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 1s.



Western blot analysis of lysates from NIH/3T3 cells using Phospho-p38 MAPK-T180/Y182 Rabbit pAb (AP0297) at 1:1000 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  $\mu$ g per lane.  
Blocking buffer: 3 % nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 90s.



Western blot analysis of lysates from C6 cells using Phospho-p38 MAPK-T180/Y182 Rabbit pAb (AP0297) at 1:1000 dilution incubated overnight at 4°C. C6 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  $\mu$ g per lane.  
Blocking buffer: 3 % nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 180s.