

For Research Use Only

# p38 MAPK Recombinant antibody

Catalog Number: 80821-2-RR



## Basic Information

<b>Catalog Number:</b> 80821-2-RR	<b>GenBank Accession Number:</b> BC031574	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1432	<b>CloneNo.:</b> 230263D11
<b>Source:</b> Rabbit	<b>Full Name:</b> mitogen-activated protein kinase 14	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IF 1:200-1:800
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 360 aa, 41 kDa	
<b>Immunogen Catalog Number:</b> AG5115	<b>Observed MW:</b> 38-42 kDa	

## Applications

**Tested Applications:**  
FC, IF, WB, ELISA

**Species Specificity:**  
Human, mouse, rat

### Positive Controls:

**WB :** Jurkat cells, HeLa cells, HEK-293 cells, K-562 cells, NIH/3T3 cells, RAW 264.7 cells, PC-12 cells

**IF :** HepG2 cells,

## Background Information

MAPK14(mitogen-activated protein kinase 14) is also named as SAPK2A, p38MAPK, CSBP1, RK, p38, EXIP, Mxi2, CSBP2, PRKM14, PRKM15, Cspb1, p38ALPHA and belongs to the MAP kinase subfamily. MAPK14-signaling is a central pathway for the integration of instructive signals in dendritic cells for T(H)17 differentiation and inflammation(PMID:22231518). It plays an important role in the regulation of hematopoietic stem cell self-renewal in vitro and inhibition of MAPK14 activation with a small molecule inhibitor may represent a novel approach to promote ex vivo expansion of hematopoietic stem cell(PMID:21198398). This protein has 4 isoforms produced by alternative splicing.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

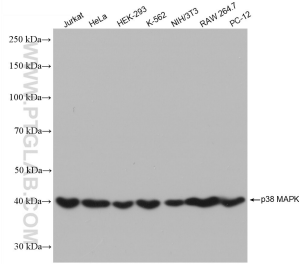
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

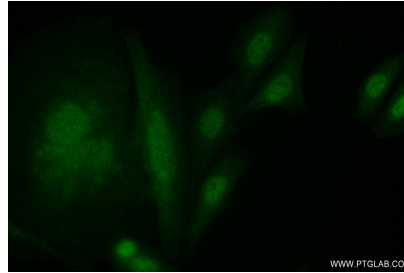
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

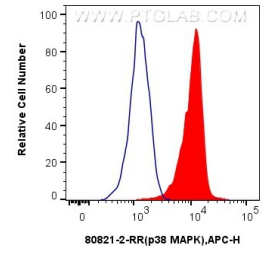
## Selected Validation Data



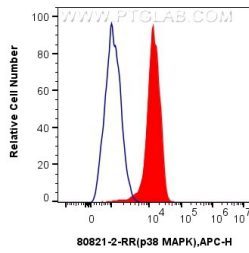
Various lysates were subjected to SDS PAGE followed by western blot with 80821-2-RR (p38 MAPK antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using p38 MAPK antibody (80821-2-RR, Clone: 230263D11) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.25  $\mu$ g Anti-Human p38 MAPK (80821-2-RR, Clone:230263D11) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25  $\mu$ g Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



$1 \times 10^6$  A431 cells were intracellularly stained with 0.25  $\mu$ g Anti-Human p38 MAPK (80821-2-RR, Clone:230263D11) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25  $\mu$ g Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.