

For Research Use Only

# p38 MAPK Recombinant antibody, PBS Only



Catalog Number: 80821-2-PBS

## Basic Information

Catalog Number: 80821-2-PBS	GenBank Accession Number: BC031574	Purification Method: Protein A purification
Size: 1mg/ml	GeneID (NCBI): 1432	CloneNo.: 230263D11
Source: Rabbit	UNIPROT ID: Q16539	
Isotype: IgG	Full Name: mitogen-activated protein kinase 14	
Immunogen Catalog Number: AG5115	Calculated MW: 360 aa, 41 kDa	
	Observed MW: 38-42 kDa	

## Applications

**Tested Applications:**  
WB, IF/ICC, IP, Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## Background Information

MAPK14 (mitogen-activated protein kinase 14) is also named as SAPIK2A, 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 -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

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

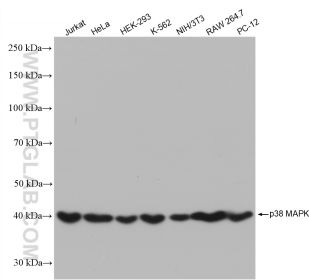
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

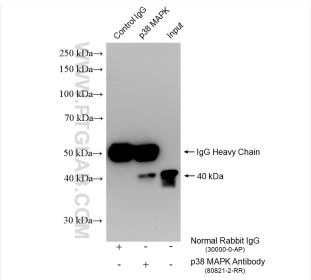
W: [ptgcn.com](http://ptgcn.com)

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

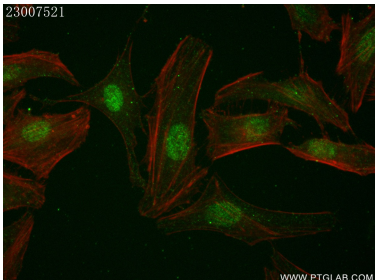
Selected Validation Data



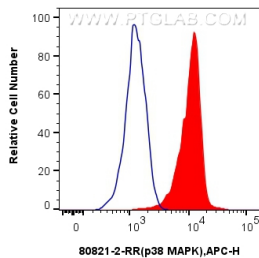
Various lysates were subjected to SDS PAGE followed by western blot with 80821-2-RR (p38 MAPK antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80821-2-PBS in a different storage buffer formulation.



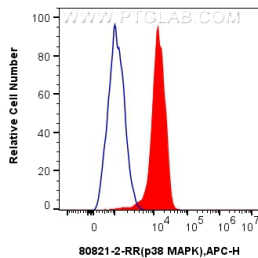
IP result of anti-p38 MAPK (IP:80821-2-RR, 4ug; Detection:80821-2-RR 1:2000) with HEK-293 cells lysate 1575 ug. This data was developed using the same antibody clone with 80821-2-PBS in a different storage buffer formulation.



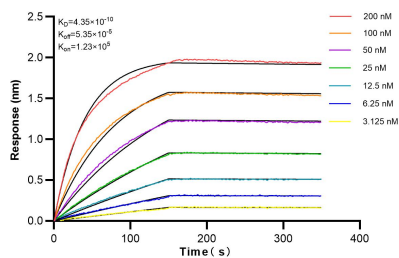
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using p38 MAPK antibody (80821-2-RR, Clone: 230263D11) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 80821-2-PBS in a different storage buffer formulation.



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug Anti-Human p38 MAPK (80821-2-RR, Clone:230263D11) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 80821-2-PBS in a different storage buffer formulation.



1x10<sup>6</sup> A431 cells were intracellularly stained with 0.25 ug Anti-Human p38 MAPK (80821-2-RR, Clone:230263D11) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 80821-2-PBS in a different storage buffer formulation.



Bi-layer interferometry (BLI) kinetic assays of 80821-2-RR against Human p38 MAPK were performed. The affinity constant is 0.435 nM.