

For Research Use Only

p38 MAPK Recombinant antibody

Catalog Number: 80821-2-RR



Basic Information

Catalog Number: 80821-2-RR	GenBank Accession Number: BC031574	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 1432	CloneNo.: 230263D11
Source: Rabbit	UNIPROT ID: Q16539	Recommended Dilutions: WB 1:2000-1:10000
Isotype: IgG	Full Name: mitogen-activated protein kinase 14	IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
Immunogen Catalog Number: AG5115	Calculated MW: 360 aa, 41 kDa	IF/ICC 1:125-1:500
	Observed MW: 38-42 kDa	

Applications

Tested Applications: WB, IF/ICC, FC (Intra), IP, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : Jurkat cells, HeLa cells, HEK-293 cells, K-562 cells, NIH/3T3 cells, RAW 264.7 cells, PC-12 cells
	IP : HEK-293 cells,
	IF/ICC : HeLa 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

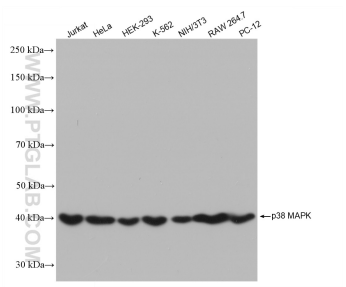
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1%BSA

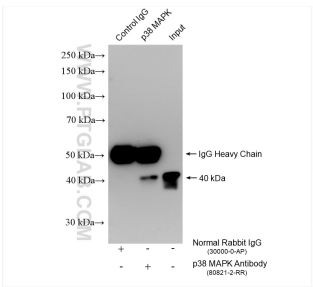
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

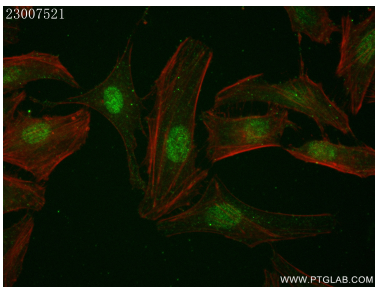
Selected Validation Data



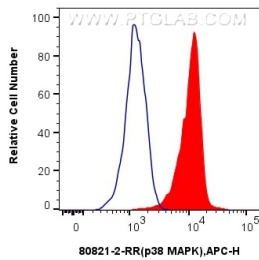
Various lysates were subjected to SDS PAGE followed by western blot with 80821-2-RR (p38 MAPK antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



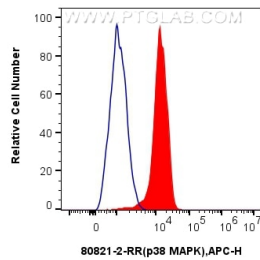
IP result of anti-p38 MAPK (IP:80821-2-RR, 4ug; Detection:80821-2-RR 1:2000) with HEK-293 cells lysate 1575 ug.



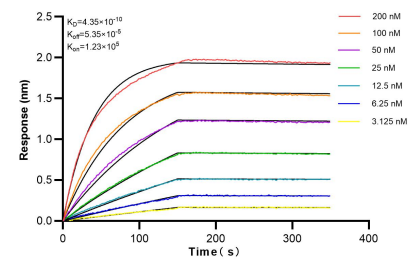
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using p38 MAPK antibody (80821-2-RR, Clone: 230263D11) at dilution of 1:250 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1x10⁶ HeLa cells were intracellularly stained with 0.25 ug Anti-Human p38 MAPK (80821-2-RR, Clone:230263D11) and APC-Conjugated 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.



1x10⁶ A431 cells were intracellularly stained with 0.25 ug Anti-Human p38 MAPK (80821-2-RR, Clone:230263D11) and APC-Conjugated 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.



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