

For Research Use Only

p38 MAPK Recombinant antibody

Catalog Number: 80821-3-RR



Basic Information

Catalog Number: 80821-3-RR	GenBank Accession Number: BC031574	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 1432	CloneNo.: 230263H7
Source: Rabbit	UNIPROT ID: Q16539	Recommended Dilutions: WB 1:2000-1:10000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
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, FC (Intra), IP, ELISA	Positive Controls:
Species Specificity: human, mouse	WB : mouse brain tissue, IP : HEK-293 cells,

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

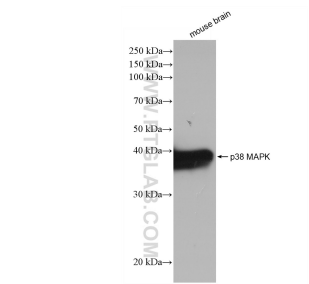
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

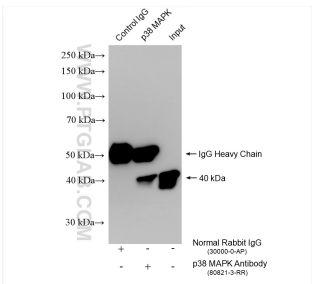
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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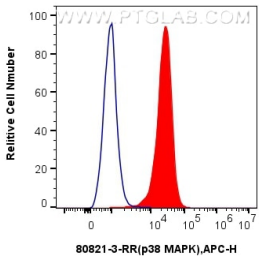
Selected Validation Data



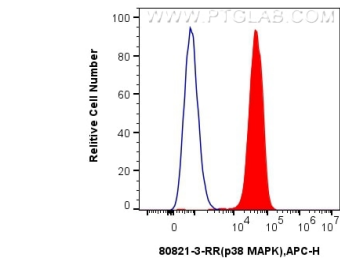
mouse brain tissue were subjected to SDS PAGE followed by western blot with 80821-3-RR (p38 MAPK antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



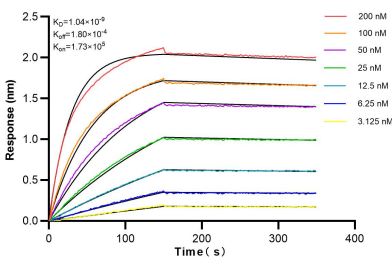
IP result of anti-p38 MAPK (IP:80821-3-RR, 4ug; Detection:80821-3-RR 1:2000) with HEK-293 cells lysate 1575 ug.



1x10⁶ HeLa cells were intracellularly stained with 0.25 ug Anti-Human p38 MAPK (80821-3-RR, Clone:230263H7) 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 Jurkat cells were intracellularly stained with 0.25 ug Anti-Human p38 MAPK (80821-3-RR, Clone:230263H7) 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.



Bioluminescence resonance energy transfer (BRET) kinetic assays of 80821-3-RR against Human p38 MAPK were performed. The affinity constant is 1.04 nM.