For Research Use Only

p38 MAPK Recombinant antibody, PBS Only

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Catalog Number:80821-3-PBS

Basic Information

Catalog Number:
80821-3-PBS

Size:
100ug , Concentration: 1mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG5115

GenBank Accession Number:
BC031574

GeneID (NCBI):
1432

UNIPROT ID:
Q16539

Full Name:
mitogen-activated protein kinase 14

Calculated MW:
360 aa, 41 kDa

Observed MW:
38-42 kDa

Purification Method:
Protein A purification

CloneNo.:
230263H7

Applications

Tested Applications:
Indirect ELISA, IP, WB

Species Specificity:
mouse, human

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 -80°C.
Storage Buffer:
PBS Only

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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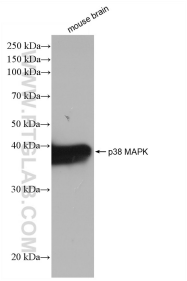
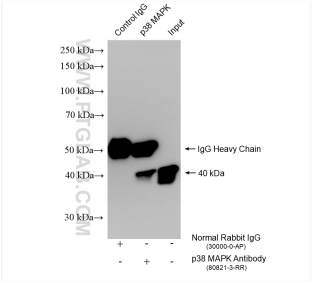
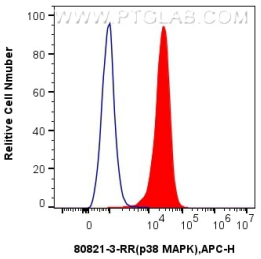
Selected Validation Data



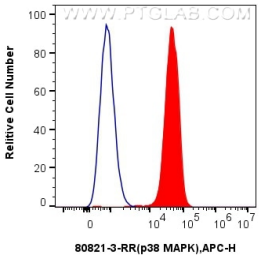
mouse brain tissue were subjected to SDS PAGE followed by western blot with 80821-3-RR (p38 MAPK antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80821-3-PBS in a different storage buffer formulation.



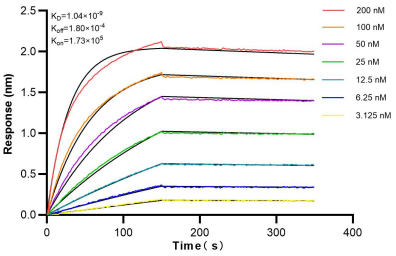
IP result of anti-p38 MAPK (IP:80821-3-RR, 4ug; Detection:80821-3-RR 1:2000) with HEK-293 cells lysate 1575 ug. This data was developed using the same antibody clone with 80821-3-PBS in a different storage buffer formulation.



1x10^6 HeLa cells were intracellularly stained with 0.25 ug Anti-Human p38 MAPK (80821-3-RR, Clone:230263H7) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 80821-3-PBS in a different storage buffer formulation.



1x10^6 Jurkat cells were intracellularly stained with 0.25 ug Anti-Human p38 MAPK (80821-3-RR, Clone:230263H7) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 80821-3-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 80821-3-RR against Human p38 MAPK were performed. The affinity constant is 1.04 nM.