

p38 MAPK Recombinant antibody

Catalog Number: 80821-3-RR

Basic Information

Catalog Number:

80821-3-RR

Size:

1000 µg/ml

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

Recommended Dilutions:

WB 1:2000-1:10000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

Applications

Tested Applications:

WB, FC (Intra), IP, ELISA

Species Specificity:

human, mouse

Positive Controls:

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:

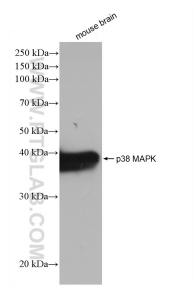
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

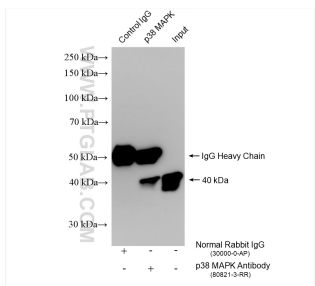
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

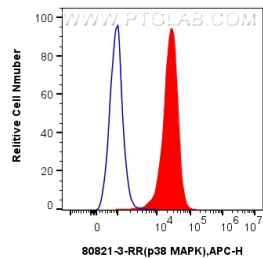
Selected Validation Data



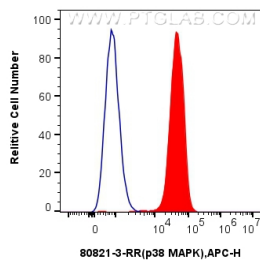
mouse brain tissue were subjected to SDS PAGE followed by western blot with 80821-3-RR (p38 MAPK antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



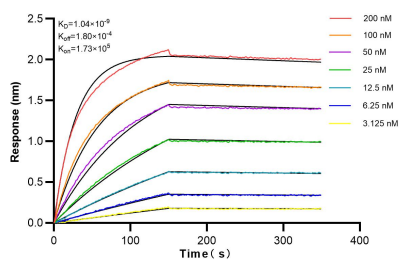
IP result of anti-p38 MAPK (IP:80821-3-RR, 4ug; Detection:80821-3-RR 1:2000) with HEK-293 cells lysate 1575 ug.



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



1x10⁶ 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.



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