

For Research Use Only

Phospho-p38 MAPK (Thr180/Tyr182) Polyclonal antibody, PBS Only

Catalog Number: 28796-1-PBS



Basic Information

Catalog Number:

28796-1-PBS

Size:

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

Source:

Rabbit

Isotype:

IgG

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:

Antigen affinity purification

Applications

Tested Applications:

WB, IF/ICC, Indirect ELISA

Species Specificity:

human, mouse

Background Information

A stress-activated serine/threonine protein kinase, p38 mitogen-activated protein kinase (p38 MAPK), belongs to the MAP kinase superfamily. Diverse extracellular stimuli, including ultraviolet light, irradiation, heat shock, high osmotic stress, proinflammatory cytokines and certain mitogens, trigger a stress-regulated protein kinase cascade culminating in activation of p38 MAPK through phosphorylation on a TGY motif within the kinase activation loop. The p38 MAPK undergoes dual phosphorylation at Thr182 and Tyr180 in the Thr-Gly-Tyr activation loop by MAP kinase kinase 6 (MKK6). Upon activation, p38 MAPK phosphorylates multiple substrates, including MAPK activated protein kinase 2 (MAPKAPK2) and activating transcription factor 2 (ATF-2). (PMID: 26901653, PMID: 10807318)

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

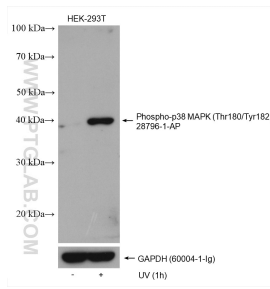
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

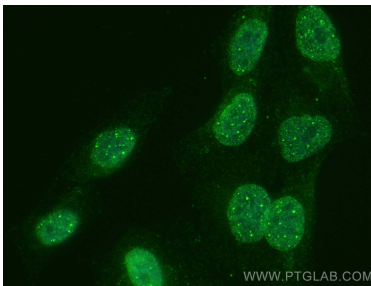
E: proteintech@ptglab.com
W: ptglab.com

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

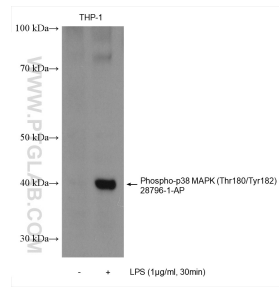
Selected Validation Data



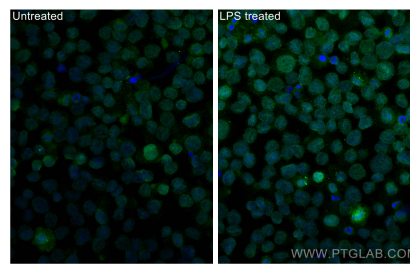
Non-treated and UV treated HEK-293T cells were subjected to SDS PAGE followed by western blot with 28796-1-AP (Phospho-p38 MAPK (Thr180/Tyr182) antibody) at dilution of 1:2000 incubated at room temperature for 1 hours. The membrane was stripped and re-blotting with GAPDH antibody as loading control. This data was developed using the same antibody clone with 28796-1-PBS in a different storage buffer formulation.



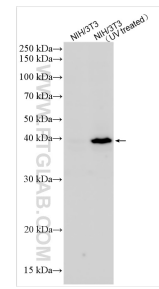
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Phospho-p38 MAPK (Thr180/Tyr182) antibody (28796-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 28796-1-PBS in a different storage buffer formulation.



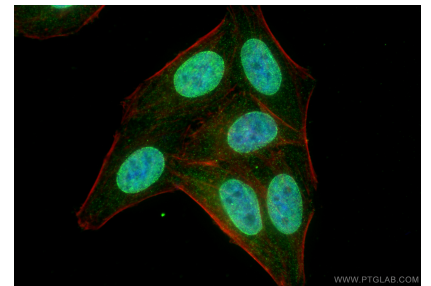
Non-treated and LPS treated THP-1 cells were subjected to SDS PAGE followed by western blot with 28796-1-AP (Phospho-p38 MAPK (Thr180/Tyr182) antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 28796-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed LPS treated THP-1 cells using Phospho-p38 MAPK (Thr180/Tyr182) antibody (28796-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 28796-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 28796-1-AP (Phospho-p38 MAPK (Thr180/Tyr182) antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 28796-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Phospho-p38 MAPK (Thr180/Tyr182) antibody (28796-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red). This data was developed using the same antibody clone with 28796-1-PBS in a different storage buffer formulation.