For Research Use Only

Phospho-p38 MAPK (Thr180/Tyr182) Recombinant antibody

Catalog Number:81212-2-RR

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
81212-2-RR

Size:
100ul , Concentration: 1000 ug/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:
Protein A purfication

CloneNo.:
242308D3

Recommended Dilutions:
WB 1:2000-1:10000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human, mouse

Positive Controls:

WB : Anisomycin treated HeLa cells, UV treated NIH/3T3 cells, Anisomycin treated NIH/3T3 cells

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)

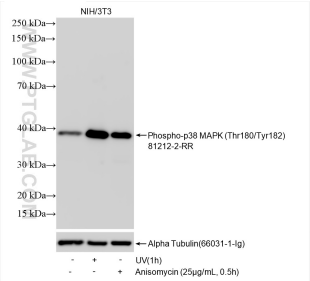
Storage

Storage:
Store at -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

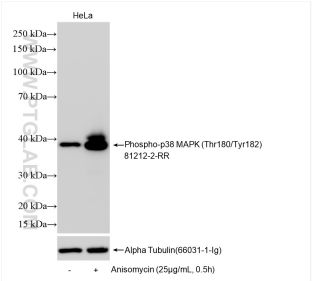
***** 20ul sizes contain 0.1% BSA**

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

Selected Validation Data



Non-treated NIH/3T3 cells, UV treated and Anisomycin treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 81212-2-RR (Phospho-p38 MAPK (Thr180/Tyr182) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubulin (66031-1-Ig) antibody as a loading control.



Non-treated HeLa cells and Anisomycin treated HeLa cells were subjected to SDS PAGE followed by western blot with 81212-2-RR (Phospho-p38 MAPK (Thr180/Tyr182) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubulin (66031-1-Ig) antibody as a loading control.