For Research Use Only

Phospho-p38 MAPK (Thr180/Tyr182) Recombinant antibody

Catalog Number:81212-2-RR



Basic Information	Catalog Number: 81212-2-RR	GenBank Accession Number: BC031574	Purification Method: Protein A purfication	
	Size: 1000 µg/ml	GeneID (NCBI): 1432	CloneNo.: 242308D3	
	Source: Rabbit	UNIPROT ID: Q16539	Recommended Dilutions: WB 1:2000-1:10000	
	Isotype: IgG	Full Name: mitogen-activated protein kinase 14 Calculated MW: 360 aa, 41 kDa		
		Observed MW: 38-42 kDa		
Applications	Tested Applications: WB, ELISA	Positive WB : Anis NIH/2TZ	Positive Controls: WB : Anisomycin treated HeLa cells, UV treated NIH/AT3 cells Anisomycin treated NIH/AT3 cells	
	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 -20°C. Stable for one year Storage Buffer: PBS with 0.02% sodium azide and Aliquoting is unnecessary for -20°	after shipment. 50% glycerol pH 7.3. C storage		

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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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-lg) 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-lg) antibody as a loading control.