Phospho-ATF2 (Thr71)/ATF7 (Thr53) Polyclonal antibody

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Catalog Number:28790-1-AP

Basic Information	Catalog Number: 28790-1-AP Size: 900 µ g/ml Source: Rabbit Isotype: IgG	GenBank Accession Number: BC026175 GeneID (NCBI): 1386 UNIPROT ID: P15336 Full Name: activating transcription factor 2	Purification Method: Antigen affinity purification Recommended Dilutions: WB 1:2000-1:16000
		Calculated MW: 209 aa, 23 kDa Observed MW: 60-70 kDa	
Applications	Tested Applications: WB, ELISA Species Specificity: Human, Mouse	Positive Controls: WB : Anisomycin treated NIH/3T3 cells,	
Background Information	ATF2, also named as CREB2 and CREBP1, contains one bZIP domain and one C2H2-type zinc finger. It belongs to the bZIP family. ATF2 binds to the cAMP-responsive element(CRE), an octameric palindrome. It forms a homodimer or a heterodimer with c-Jun and stimulates CRE-dependent transcription. ATF2 binds DNA as a dimer and can form a homodimer in the absence of DNA. It binds through its N-terminal region to UTF1 which acts as a coactivator of ATF2 transcriptional activity. Stress and growth factors activate ATF2 and ATF7 mainly via sequential phosphorylation of two conserved threonine residues in their activation domain. Distinct protein kinases, among which mitogenactivated protein kinases (MAPK), phosphorylate ATF2 on Thr71 and ATF7 on Thr53, resulting in transcriptional activation. The antibody recognizes ATF2 phosphorylation sites Thr71 and ATF7 phosphorylation sites Thr53.		
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		

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 and Anisomycin treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 28790-1-AP (Phospho-ATF2 (Thr71)/ATF7 (Thr53) antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with GAPDH antibody as loading control.