For Research Use Only

## ATF4 Recombinant antibody

Catalog Number:81798-1-RR

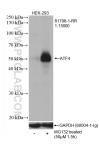


Basic Information	Catalog Number: 81798-1-RR	GenBank Accession BC022088	Number:	Purification Method: Protein A purification
	Concentration: 750 ug/ml	GeneID (NCBI): 468		CloneNo.: 5N3
	Source: Rabbit	UNIPROT ID: P18848		Recommended Dilutions: WB 1:5000-1:50000
	Isotype: IgG Immunogen Catalog Number: AG1279	Full Name: activating transcription factor 4 (tax responsive enhancer element B67) Calculated MW: 39 kDa		IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500
		Applications	Tested Applications:	Positive Con
WB, IHC, IP, ELISA Species Specificity:			WB : A431 cells, MG132 treated HEK-293 cells, MG132 treated HeLa cells	
human			IP : HEK-293 cells,	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			IHC : human breast cancer tissue, human stomach cancer tissue, human colon cancer tissue	
	retrieval may be performed	atively, antigen		
Background Informatior	retrieval may be performed buffer pH 6.0 ATF4 is a transcription factor, that differentiation and bone formatio regulate amino acid metabolism, diet-induced obesity and glucose 19726872]. Due to its location at c positional candidate gene for schi microenvironmental factors, and r therapeutic target in cancer. Endop bind DNA as a homodimer and as	atively, antigen with citrate accumulates predomina n[PMID: 19016586]. As a cellular redox state, and homeostasis in mamma homeostasis in mamma iroomosome 22q13, a re izophrenia[PMID: 18163; regulates processes rele genous ATF4 protein has a heterodimer. ATF4 is o	cancer tissue, antly in osteoblas basic leucine-zip d anti-stress respo lis, and has conser gion linked to sch 433]. Otherwise, s vant to cancer pro s a molecular mas ubiquitinated by S	human colon cancer tissue ts, where it regulates terminal osteobla: oper (bZip) transcription factor, ATF4 can nses. It also regulates age-related and rved metabolic functions in flies[PMID: izophrenia, ATF4 is considered as a
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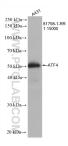
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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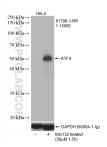
## Selected Validation Data



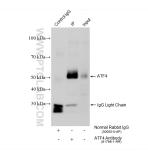
Non-treated HEK-293 and MG132 treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 81798-1-RR (ATF4 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with GAPDH antibody as loading control.



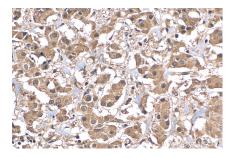
A431 cells were subjected to SDS PAGE followed by western blot with 81798-1-RR (ATF4 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



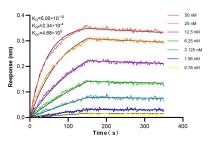
Non-treated HeLa and MG132 treated HeLa cells were subjected to SDS PAGE followed by western blot with 81798-1-RR (ATF4 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



IP result of anti-ATF4 (IP:81798-1-RR, 4ug; Detection:81798-1-RR 1:4000) with HEK-293 cells lysate 1440 ug.



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 81798-1-RR (ATF4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLl) kinetic assays of 81798-1-RR against Human ATF4 were performed. The affinity constant is 0.500 nM.