For Research Use Only

ATF6 Monoclonal antibody

Catalog Number:66563-1-lg Featured Product

21 Publications

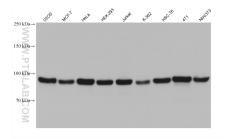


Basic Information	Catalog Number: 66563-1-Ig	GenBank Accession Number: BC014969		Purification Method: Protein A purification	
	Size: GeneID (NCBI): 1000 μg/ml 22926			CloneNo.: 3B7E4	
	Source: Mouse	UNIPROT ID: P18850		Recommended Dilutions: WB 1:5000-1:50000	
	lsotype: lgG1	Full Name: activating transcription factor 6		IHC 1:250-1:1000 IF 1:50-1:500	
	Immunogen Catalog Number: AG21456	Calculated MW: 75 kDa			
		Observed MW: 90-100 kDa			
Applications	Tested Applications:		Positive Controls:		
	FC, IF/ICC, IHC, WB, ELISA Cited Applications: WB, IF		HSC-T6 cell	ells, HeLa cells, HEK-293 cells, 4T1 cells, 5, NIH/3T3 cells, RAW 264.7 cells, MCF-7 cells, K-562 cells	
	Species Specificity: Human, mouse, rat		IHC : human cervical cancer tissue, human breast cancer tissue		
	Cited Species: human, rat, mouse, pig		IF : HepG2 c	IF : HepG2 cells,	
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
Background Information	Activating transcription factor 6 (ATF6) is a transcription factor that acts during endoplasmic reticulum stress by activating unfolded protein response target genes. Binds DNA on the 5'-CCAC[GA]-3'half of the ER stress response element (ERSE) (5'-CCAAT-N(9)-CCAC[GA]-3') and of ERSE II (5'-ATTGG-N-CCACG-3'). Binding to ERSE requires binding of NF-Y to ERSE. Could also be involved in activation of transcription by the serum response factor. During unfolded protein response an approximative 50 kDa fragment containing the cytoplasmic transcription factor domain is released by proteolysis. The cleavage seems to be performed sequentially by site-1 and site-2 proteases. The fully glycosylated form of ATF6, a 670 amino acid protein, exhibits an electrophoretic mobility of ~90 kDa in denaturing SDS-gels, in part because of the glycosylated protein. Differentially glycosylated ATF6 forms may resul from mutations or experimental treatment (PMID:15804611) (PMID:14699159). The antibody recognizes cleaved an fully glycosylated forms of ATF6.				
Notable Publications	Author	Pubmed ID J	ournal	Application	
Notable Publications			Cells	WB	
Notable Publications	Plaoplao Wen	3013330			
Notable Publications	Piaopiao Wen Qi Xu	36341965 E	Inviron Toxicol Pha	armacol WB	
Notable Publications	· .		nviron Toxicol Pha	armacol WB WB,IF	

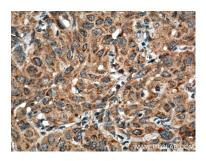
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data

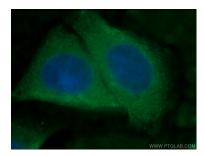
temperature for 1.5 hours.



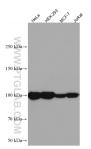
Various lysates were subjected to SDS PAGE followed by western blot with 66563-1-1g (ATF6 antibody) at dilution of 1:10000 incubated at room



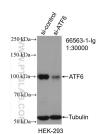
Immunohistochemical analysis of paraffinembedded human cervical cancer tissue slide using 66563-1-1g (ATF6 antibody) at dilution of 1:500 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



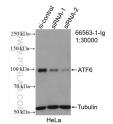
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 66563-1-Ig (ATF6 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



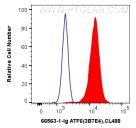
Various lysates were subjected to SDS PAGE followed by western blot with 66563-1-1g (ATF6 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



WB result of ATF6 antibody (66563-1-lg: 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ATF6 transfected HEK-293 cells.



WB result of ATF6 antibody (66563-1-lg; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ATF6 transfected HeLa cells.



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human ATF6 (66563-1-1g, Clone:3B7E4) and Coralite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).