

For Research Use Only

ATF6 Recombinant antibody

Catalog Number: 82278-1-RR



Basic Information

Catalog Number: 82278-1-RR	GenBank Accession Number: BC014969	Purification Method: Protein A purification
Size: 500 µg/ml	GeneID (NCBI): 22926	CloneNo.: 208
Source: Rabbit	UNIPROT ID: P18850	Recommended Dilutions: WB 1:2000-1:10000 IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate
Isotype: IgG	Full Name: activating transcription factor 6	
Immunogen Catalog Number: AG21456	Calculated MW: 75 kDa	
	Observed MW: 90-100 kDa	

Applications

Tested Applications: IP, WB, ELISA	Positive Controls: WB : HEK-293 cells, HeLa cells, MCF-7 cells, Jurkat cells, K-562 cells
Species Specificity: Human	IP : HeLa cells,

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 modifications. ATF6 has 3 consensus sites for N-linked glycosylation and exists constitutively as a glycosylated protein. Differentially glycosylated ATF6 forms may result from mutations or experimental treatment (PMID:15804611) (PMID:14699159).

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:

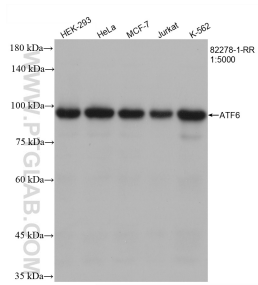
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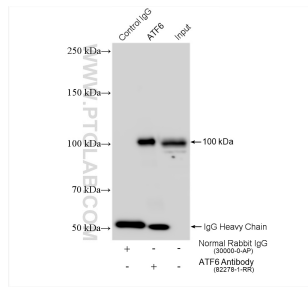
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82278-1-RR (ATF6 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



IP result of anti-ATF6 (IP:82278-1-RR, 4ug; Detection:82278-1-RR 1:2000) with HeLa cells lysate 1280 ug.