

For Research Use Only

# ATF6 Recombinant antibody

Catalog Number: 82278-1-RR



## Basic Information

<b>Catalog Number:</b> 82278-1-RR	<b>GenBank Accession Number:</b> BC014969	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 500 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 22926	<b>CloneNo.:</b> 208
<b>Source:</b> Rabbit	<b>Full Name:</b> activating transcription factor 6	<b>Recommended Dilutions:</b> WB 1:2000-1:10000
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 75 kDa	
<b>Immunogen Catalog Number:</b> AG21456	<b>Observed MW:</b> 90-100 kDa	

## Applications

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

## 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

\*\*\* 20ul sizes contain 0.1% BSA

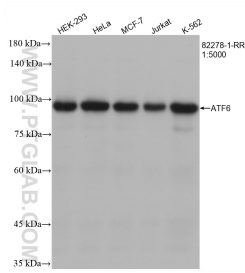
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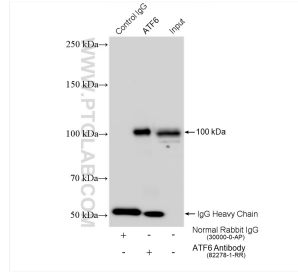
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## Selected Validation Data



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.