## For Research Use Only

## ATF6 Polyclonal antibody

Catalog Number:24169-1-AP

Featured Product





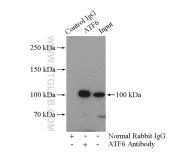
## GenBank Accession Number: Catalog Number: **Purification Method: Basic Information** 24169-1-AP BC014969 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 150ul , Concentration: 600 ug/ml by 22926 WB: 1:2000-1:14000 Nanodrop: IP: 0.5-4.0 ug for 1.0-3.0 mg of total UNIPROT ID: protein lysate Source P18850 IHC: 1:20-1:200 Rabbit Full Name: IF/ICC: 1:200-1:800 Isotype activating transcription factor 6 FC (Intra): 0.40 ug per 10^6 cells in a lgG Calculated MW: 100 ul suspension Immunogen Catalog Number: 75 kDa AG21456 Observed MW: 60-70 kDa, 90-100 kDa **Tested Applications:** Positive Controls: **Applications** WB, IHC, IF/ICC, FC (Intra), IP, ELISA WB: HeLa cells, HEK-293 cells, MCF-7 cells, mouse **Cited Applications:** liver tissue, rat liver, rat liver tissue WB, IHC, IF, IP, CoIP P: Hela cells **Species Specificity:** IHC : human cervical cancer tissue, human breast human, mouse, rat hyperplasia tissue, human pancreas cancer tissue, **Cited Species:** human pancreas tissue human, mouse, rat, pig, monkey, chicken, bovine IF/ICC : HeLa cells, Note-IHC: suggested antigen retrieval with FC (Intra) : HeLa cells, TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 Activating transcription factor 6 (ATF6) is a transcription factor that acts during endoplasmic reticulum stress by **Background Information** 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). The antibody recognizes cleaved and fully glycosylated forms of ATF6. **Notable Publications** Author Pubmed ID Journal Application Junxia Hu 31580970 **Biomed Pharmacother** WB Jing Sun Front Pharmacol WB 34650437 Yingchao Gong 34582847 Eur J Pharmacol WB Storage Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol, pH7.3 Aliquoting is unnecessary for -20°C storage \*\*\* 20ul sizes contain 0.1% BSA For technical support and original validation data for this product please contact: This product is exclusively available under Proteintech E: proteintech@ptglab.com

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

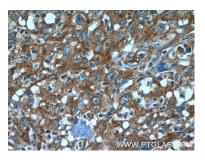
W: ptglab.com

Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



IP result of anti-ATF6 (IP:24169-1-AP, 4ug; Detection:24169-1-AP 1:1500) with HeLa cells lysate 2800ug.



Immunohistochemical analysis of paraffinembedded human cervical cancer tissue slide using 24169-1-AP (ATF6 Antibody) at dilution of 1:50 (under 40x lens). WB result of ATF6 antibody (24169-1-AP; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ATF6 transfected HEK-293 cells.

HEK-293

250 kDa 150 kDa

100 kDa-

70 kDa-

50 kDa

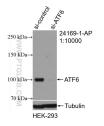
40 kDa-

169-1-AP

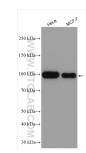
:6000

-ATF6

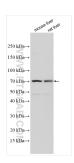
-Tubulin



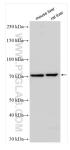
WB result of ATF6 antibody (24169-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ATF6 transfected HEK-293 cells.



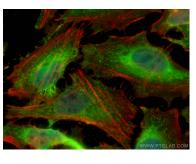
Various lysates were subjected to SDS PAGE followed by western blot with 24169-1-AP (ATF6 antibody) at dilution of 1:7000 incubated at room temperature for 1.5 hours.



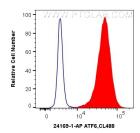
Various lysates were subjected to SDS PAGE followed by western blot with 24169-1-AP (ATF6 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 24169-1-AP (ATF6 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using ATF6 antibody (24169-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594phalloidin (red).



1X10<sup>^6</sup> HeLa cells were intracellularly stained with 0.4 ug Anti-Human ATF6 (24169-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit 1gG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Intracellular Staining Permeabilization Wash Buffer.