

Rabbit ATF6 Polyclonal Antibody | anti-ATF6 antibody

Anti-ATF6 Picoband Antibody

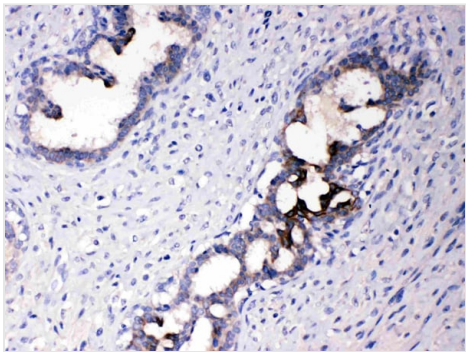
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124587	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins	Western Blot, Immunohistochemistry

PRODUCT SYNONYMS

ATF6; Polyclonal Antibody; Anti-ATF6 Picoband Antibody; Cyclic AMP-dependent transcription factor ATF-6 alpha; cAMP-dependent transcription factor ATF-6 alpha; Activating transcription factor 6 alpha; ATF6-alpha; Processed cyclic AMP-dependent transcription factor ATF-6 alpha; anti-ATF6 antibody

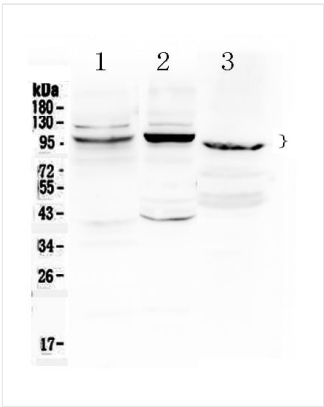
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified
Form/Format	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml. (varies by lot)
Sequence Length	670
Applicable Applications for anti-ATF6 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human ATF6 (597-629aa AININENVINGQDYEVMMQIDCQVMDTRILHIK), different from the related mouse and rat sequences by one amino acid.
Subcellular Localization	Endoplasmic reticulum membrane; Single-pass type II membrane protein.
Tissue Specificity	Ubiquitous.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of ATF6 using anti- ATF6 antibody (AAA124587).ATF6 was detected in paraffin-embedded section of human mammary cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti- ATF6 Antibody (AAA124587) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of ATF6 using anti- ATF6 antibody (AAA124587).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: rat liver tissue lysates,Lane 2: mouse liver tissue lysates,Lane 3: MCF-7 whole Cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- ATF6 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for ATF6 at approximately 90 KD,100KD. The expected band size for ATF6 is at 75KD.

ADDITIONAL INFORMATION

Related Product Information for anti-ATF6 antibody	Description: ATF6, a member of the leucine zipper protein family, is an endoplasmic reticulum (ER) stress-regulated transmembrane transcription factor that activates the transcription of ER molecules. This gene is mapped to chromosome 1q23.3. ATF6 can constitutively induce the promoter of glucose-regulated protein (grp) genes through activation of the endoplasmic reticulum (ER) stress element (ERSE). Protein Function: 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.
Product Categories/Family for anti-ATF6 antibody	Epigenetics and Nuclear Signaling; Transcription; Domain Families; HLH/Leucine Zipper; Epigenetics and Nuclear Signaling; ChIP'ing Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	56786157
NCBI GeneID	22926
NCBI Accession #	NP_031374.2
NCBI GenBank Nucleotide #	NM_007348.3
UniProt Accession #	P18850; O15139; Q5VW62; Q6IPB5; Q9UEC9
Molecular Weight	74585 MW
NCBI Official Full Name	cyclic AMP-dependent transcription factor ATF-6 alpha
NCBI Official Synonym Full Names	activating transcription factor 6
NCBI Official Symbol	ATF6
NCBI Official Synonym Symbols	ACHM7; ATF6A

NCBI Protein Information	cyclic AMP-dependent transcription factor ATF-6 alpha
UniProt Protein Name	Cyclic AMP-dependent transcription factor ATF-6 alpha
UniProt Gene Name	ATF6
UniProt Synonym Gene Names	cAMP-dependent transcription factor ATF-6 alpha; ATF6-alpha

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/atf6-antibody-western-blot-immunohistochemistry-elisa/124587>