

Datasheet for ABIN1512605
anti-ATF6 antibody (AA 1-190)



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Overview

Quantity:	100 µg
Target:	ATF6
Binding Specificity:	AA 1-190
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATF6 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-190 of human ATF6 (NP_031374.2).
Sequence:	MGEPAGVAGT MESPFPGLF HRLDEDWDSA LFAELGYFTD TDELQLEAAN ETYENNFDNL DFDLDLMPWE SDIWDINNQI CTVKDIKAEP QPLSPASSSY SVSSPRSVDS YSSTQHVPEE LDLSSSSQMS PLSLYGENSN SLSSAEPLKE DKPVTGPRNK TENGLTPKKK IQVNSKPSIQ PKPLLLPAAP
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	ATF6
Alternative Name:	ATF6 (ATF6 Products)
Background:	<p>This gene encodes a transcription factor that activates target genes for the unfolded protein response (UPR) during endoplasmic reticulum (ER) stress. Although it is a transcription factor, this protein is unusual in that it is synthesized as a transmembrane protein that is embedded in the ER. It functions as an ER stress sensor/transducer, and following ER stress-induced proteolysis, it functions as a nuclear transcription factor via a cis-acting ER stress response element (ERSE) that is present in the promoters of genes encoding ER chaperones. This protein has been identified as a survival factor for quiescent but not proliferative squamous carcinoma cells. There have been conflicting reports about the association of polymorphisms in this gene with diabetes in different populations, but another polymorphism has been associated with increased plasma cholesterol levels. This gene is also thought to be a potential therapeutic target for cystic fibrosis.,ATF6,ACHM7,ATF6A,Epigenetics & Nuclear Signaling,Transcription Factors,Neuroscience,Neurodegenerative Diseases,ATF6</p>
Molecular Weight:	74 kDa
Gene ID:	22926
UniProt:	P18850
Pathways:	ER-Nucleus Signaling , Unfolded Protein Response

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:100
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C

Handling

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

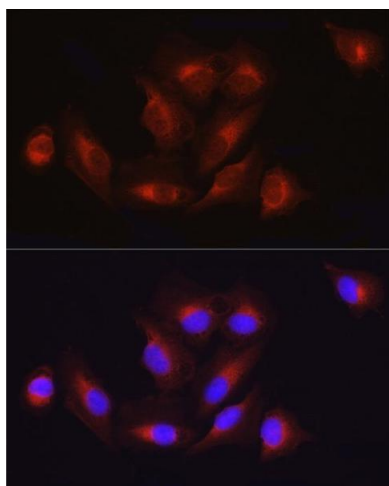
Publications

Product cited in: Jiang, He, Zhu, Liang, Wang, Lu, Ren, Yi, Xiao, Wang: "Endoplasmic reticulum stress-dependent ROS production mediates synovial myofibroblastic differentiation in the immobilization-induced rat knee joint contracture model." in: **Experimental cell research**, Vol. 369, Issue 2, pp. 325-334, (2018) ([PubMed](#)).

Knowlton, Fernández de Castro, Ashbrook, Gestaut, Zamora, Bauer, Forrest, Frydman, Risco, Dermody: "The TRiC chaperonin controls reovirus replication through outer-capsid folding." in: **Nature microbiology**, Vol. 3, Issue 4, pp. 481-493, (2018) ([PubMed](#)).

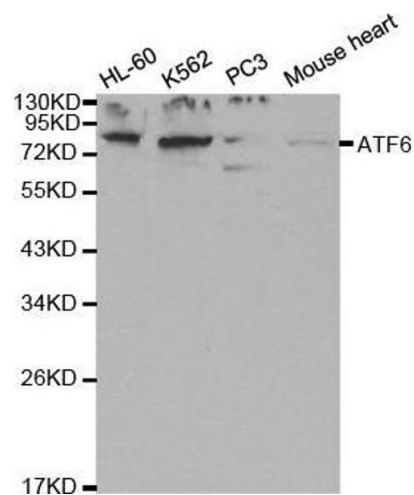
He, Xu, Gou, Yuan, Liao, Chen, Fan, Xie, Deng, Zhang, Chen, Zhao: "CSFV Infection Up-Regulates the Unfolded Protein Response to Promote Its Replication." in: **Frontiers in microbiology**, Vol. 8, pp. 2129, (2017) ([PubMed](#)).

Images



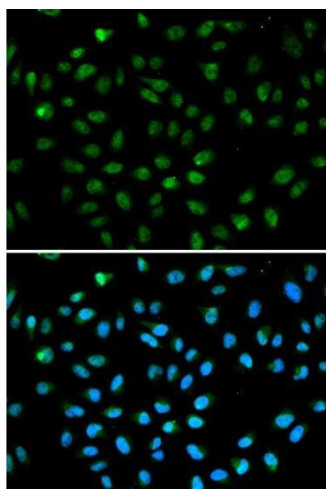
Immunofluorescence

Image 1. Immunofluorescence analysis of U2OS cells using Rabbit pAb (ABIN3020671, ABIN3020672, ABIN1512605 and ABIN6213659) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using ATF6 antibody.



Immunofluorescence

Image 3. Immunofluorescence analysis of A549 cell using ATF6 antibody. Blue: DAPI for nuclear staining

Please check the [product details page](#) for more images. Overall 9 images are available for ABIN1512605.