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Datasheet for ABIN1512605

anti-ATF6 antibody (AA 1-190)

9 Images

3 Publications

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 ETYENNFNLDL DFDLMLPWE 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

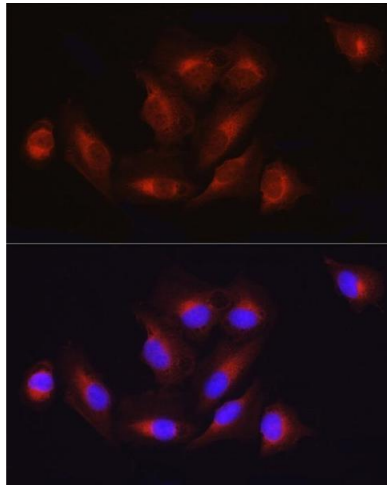
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C

Handling

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

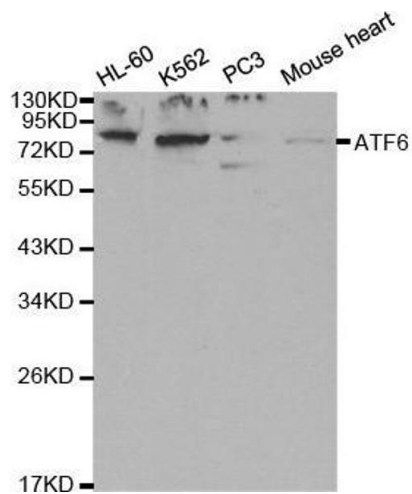
Publications

- Product cited in:
- Hoover, Bond, Hoover, Defoe: "Effect of neurturin deficiency on cholinergic and catecholaminergic innervation of the murine eye." in: **Experimental eye research**, Vol. 122, pp. 32-9, (2014) ([PubMed](#)).
- Muller, Mascagni, Zaric, McDonald: "Muscarinic cholinergic receptor M1 in the rat basolateral amygdala: ultrastructural localization and synaptic relationships to cholinergic axons." in: **The Journal of comparative neurology**, Vol. 521, Issue 8, pp. 1743-59, (2013) ([PubMed](#)).
- Wotus, Lilley, Neal, Suleiman, Schmuck, Smarr, Fischer, de la Iglesia: "Forced desynchrony reveals independent contributions of suprachiasmatic oscillators to the daily plasma corticosterone rhythm in male rats." in: **PLoS ONE**, Vol. 8, Issue 7, pp. e68793, (2013) ([PubMed](#)).
- Fregoso, Hoover: "Development of cardiac parasympathetic neurons, glial cells, and regional cholinergic innervation of the mouse heart." in: **Neuroscience**, Vol. 221, pp. 28-36, (2012) ([PubMed](#)).
- Muller, Mascagni, McDonald: "Cholinergic innervation of pyramidal cells and parvalbumin-immunoreactive interneurons in the rat basolateral amygdala." in: **The Journal of comparative neurology**, Vol. 519, Issue 4, pp. 790-805, (2011) ([PubMed](#)).



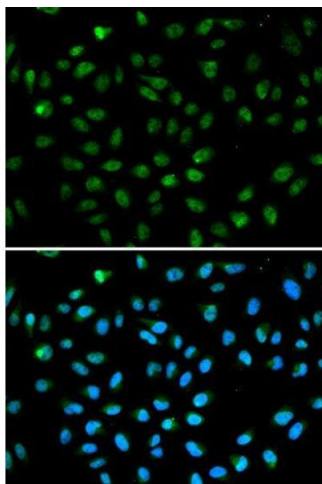
Immunofluorescence

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.