

Datasheet for ABIN3020669
anti-ATF4 antibody (AA 1-351)[Go to Product page](#)

2 Images

1 Publication

Overview

Quantity:	100 µL
Target:	ATF4
Binding Specificity:	AA 1-351
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATF4 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-351 of human ATF4 (NP_001666.2).
Sequence:	MTEMSFLSSE VLVGDLMSPF DQSGLGAEES LGLDDYLEV AKHFKPHGFS SDKAKAGSSE WLAVDGLVSP SNNSKEDAFS GTDWMLEKMD LKEFDLDALL GIDDLTMPD DLLTTLDLDDTC DLFAPLVQET NKQPPQTVNP IGHLPESLTK PDQVAPFTFL QPLPLSPGVL SSTPDHSFSL ELGSEVDITE GDRKPDYTAY VAMIPQCIKE EDTPSDND SG ICMSPE SYLG SPQHSPSTRG SPNRSPLSPG VLCGSARPKP YDPPGEEKMVA AKVKGEKLDK KLKKMEQNKT AATRYRQKKR AEQEALTGEC KELEKKNEAL KERADSLAKE IQYLKDLIEE VRKARGKKRV P
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Polyclonal Antibodies

Product Details

Purification: Affinity purification

Target Details

Target: ATF4

Alternative Name: ATF4 ([ATF4 Products](#))

Background: This gene encodes a transcription factor that was originally identified as a widely expressed mammalian DNA binding protein that could bind a tax-responsive enhancer element in the LTR of HTLV-1. The encoded protein was also isolated and characterized as the cAMP-response element binding protein 2 (CREB-2). The protein encoded by this gene belongs to a family of DNA-binding proteins that includes the AP-1 family of transcription factors, cAMP-response element binding proteins (CREBs) and CREB-like proteins. These transcription factors share a leucine zipper region that is involved in protein-protein interactions, located C-terminal to a stretch of basic amino acids that functions as a DNA binding domain. Two alternative transcripts encoding the same protein have been described. Two pseudogenes are located on the X chromosome at q28 in a region containing a large inverted duplication.,ATF4,CREB-2,CREB2,TAXREB67,TXREB,Epigenetics & Nuclear Signaling,Transcription Factors,Signal Transduction,MAPK-Erk Signaling Pathway,Cell Biology & Developmental Biology,Protein folding,ATF4

Molecular Weight: 38 kDa

Gene ID: 468

UniProt: [P18848](#)

Pathways: [Thyroid Hormone Synthesis](#), [Myometrial Relaxation and Contraction](#), [ER-Nucleus Signaling](#), [Unfolded Protein Response](#)

Application Details

Application Notes: WB,1:500 - 1:2000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

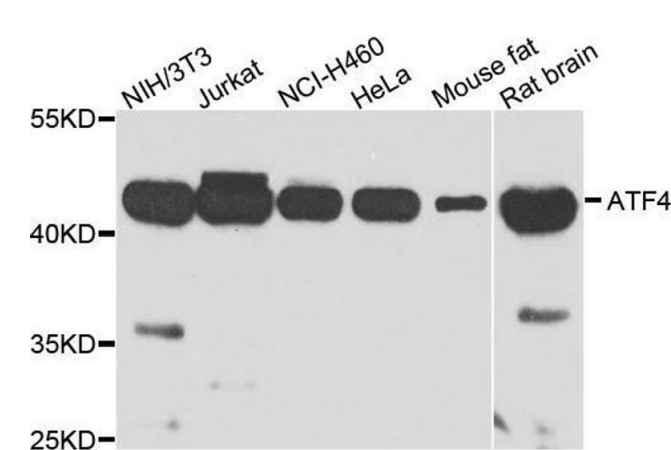
Handling

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

Publications

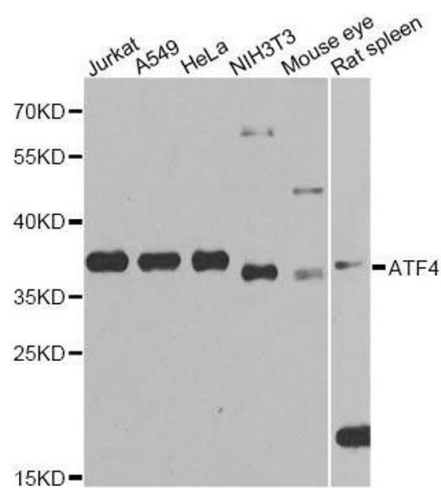
Product cited in:	Wu, Zhang, Qi, Zhang, Li, Li, Lin, Bai, Liu, Chen, Yang, Xu, Zhang, Yang: "Nicotine promotes atherosclerosis via ROS-NLRP3-mediated endothelial cell pyroptosis." in: Cell death & disease , Vol. 9, Issue 2, pp. 171, (2018) (PubMed).
	Du, Qiao, Chen, Chen, Liu, Lin, Wang, Xie: "Toll-Like Receptor 4 Mediates Methamphetamine-Induced Neuroinflammation through Caspase-11 Signaling Pathway in Astrocytes." in: Frontiers in molecular neuroscience , Vol. 10, pp. 409, (2017) (PubMed).

Validation report #104427 for Immunohistochemistry (IHC)



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using ATF4 antibody.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using ATF4 Antibody.