Datasheet for ABIN3019452

anti-ATF2 antibody (pThr71)

6 Images | 1 Publication

Go to Product page

Overview

Quantity:	100 µL
Target:	ATF2
Binding Specificity:	pThr71
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATF2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	A synthetic phosphorylated peptide around T71 of human ATF2 (NP_001871.2).
Sequence:	TPTPT
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Phosphorylated Antibodies
Purification:	Affinity purification

Target Details

Target:	ATF2
Alternative Name:	ATF2 (ATF2 Products)

Target Details

Background:	This gene encodes a transcription factor that is a member of the leucine zipper family of DNA binding proteins. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions This protein binds to the cAMP-responsive element (CRE), an octameric palindrome. It forms a homodimer or a heterodimer with c-Jun and stimulates CRE-dependent transcription. This protein is also a histone acetyltransferase (HAT) that specifically acetylates histones H2B and H4 in vitro, thus it may represent a class of sequence-specific factors that activate transcription by direct effects on chromatin components. The encoded protein may also be involved in cell's DNA damage response independent of its role in transcriptional regulation. Several alternatively spliced transcript variants have been found for this gene,CRE-BP1,CREB-2,CREB2,HB16,TREB7,ATF2,Epigenetics & Nuclear Signaling,Transcription Factors,Signal Transduction,MAPK-JNK Signaling Pathway,MAPK-P38 Signaling Pathway,Immunology & Inflammation,B Cell Receptor Signaling Pathway,Toll-like Receptor Signaling Pathway,Cell Intrinsic Innate Immunity Signaling Pathway,TLR Signaling,Protein phosphorylation,ATF2
Molecular Weight:	13- 15 kDa/23-24 kDa/35-54 kDa
Gene ID:	1386
UniProt:	P15336
Pathways:	MAPK Signaling, RTK Signaling, Thyroid Hormone Synthesis, Activation of Innate immune Response, Chromatin Binding, Myometrial Relaxation and Contraction, Synaptic Membrane, Tube Formation, Toll-Like Receptors Cascades

Application Details

Application Notes:	WB,1:500 - 1:1000,IHC,1:50 - 1:100
Restrictions:	For Research Use only

Handling

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

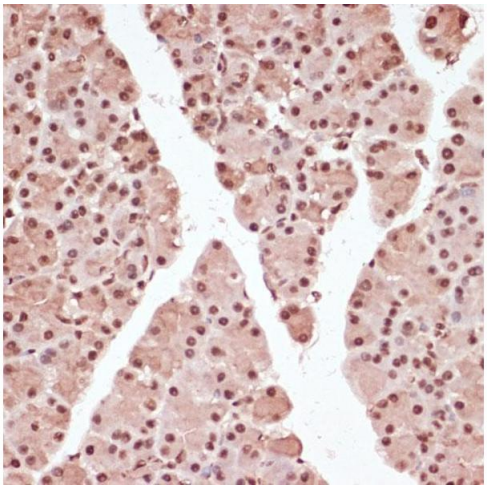
Publications

Product cited in:

Zhou, Liu, Xue, Zheng, Liu, Ma, Li, Liu et al.: "Combination of Endothelial-Monocyte-Activating Polypeptide-II with Temozolomide Suppress Malignant Biological Behaviors of Human Glioblastoma Stem Cells via miR-590-3p/MACC1 Inhibiting PI3K/AKT/mTOR ..." in: **Frontiers in molecular neuroscience**, Vol. 10, pp. 68, (2017) (PubMed).

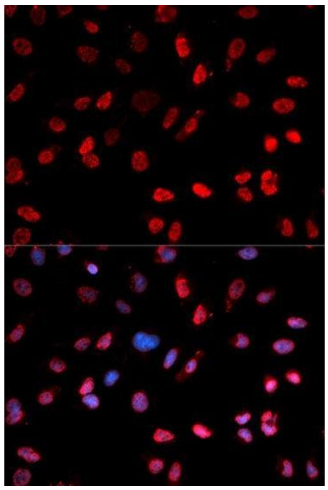
Guo, Hu, Chen, Li, Ye, Cheng, Zhang, He: "iTRAQ-based comparative proteomic analysis of Vero cells infected with virulent and CV777 vaccine strain-like strains of porcine epidemic diarrhea virus." in: **Journal of proteomics**, Vol. 130, pp. 65-75, (2016) (PubMed).

Images



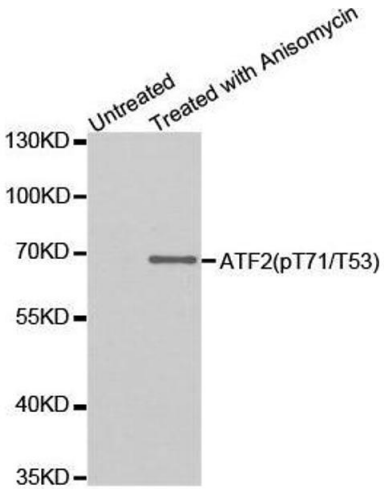
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded rat pancreas using Phospho--T71 antibody (ABIN3019451, ABIN3019452, ABIN3019453 and ABIN6225376) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunofluorescence

Image 2. Immunofluorescence analysis of MCF7 cell using Phospho-ATF2-T53 antibody. Blue: DAPI for nuclear staining.



Western Blotting

Image 3. Western blot analysis of extracts from HUVEC cells untreated or treated with Anisomycin, using Phospho-ATF2-T53 antibody.

Please check the product details page for more images. Overall 6 images are available for ABIN3019452.