ATF2 Rabbit mAb

Catalog No: #48678

Package Size: #48678-1 50ul #48678-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

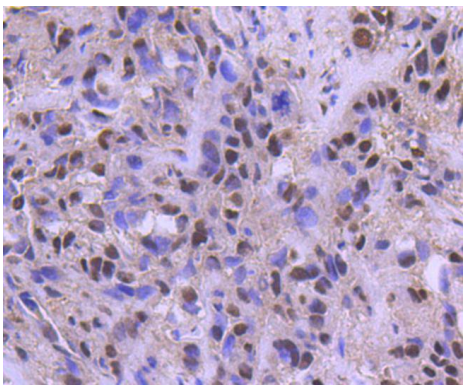
Description

Product Name	ATF2 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SZ17-01
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP
Species Reactivity	Human
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	Activating transcription factor 2 antibody Activating transcription factor 2 splice variant ATF2 var2 antibody ATF 2 antibody Atf-2 antibody Atf2 antibody ATF2 protein antibody ATF2_HUMAN antibody cAMP Response Element Binding Protein 2 antibody cAMP response element binding protein CRE BP1 antibody cAMP response element-binding protein CRE-BP1 antibody cAMP responsive element binding protein 2, formerly antibody cAMP-dependent transcription factor ATF-2 antibody cAMP-responsive element-binding protein 2 antibody CRE BP1 antibody CRE-BP antibody CREB 2 antibody CREB-2 antibody CREB2 antibody CREBP1 antibody Cyclic AMP dependent transcription factor ATF 2 antibody Cyclic AMP-dependent transcription factor ATF-2 antibody Cyclic AMP-responsive element-binding protein 2 antibody D130078H02Rik antibody D18875 antibody HB 16 antibody HB16 antibody Histone acetyltransferase ATF2 antibody MGC105211 antibody MGC105222 antibody MGC111558 antibody MGC142504 antibody mXBP antibody MXBP protein antibody Tg(Gzma-Klra1)7Wum antibody TREB 7 antibody TREB7 antibody
Accession No.	Swiss-Prot#:P15336
Calculated MW	54 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

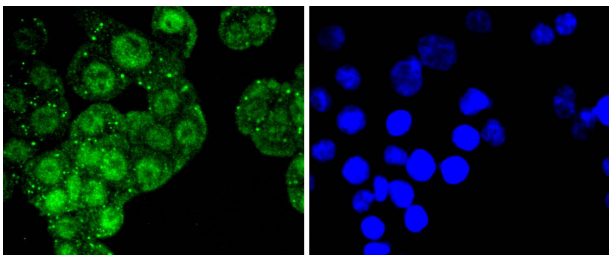
Application Details

WB: 1:1,000IHC: 1:50-1:200ICC: 1:50-1:200

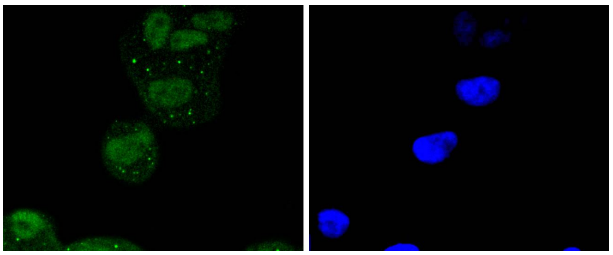
Images



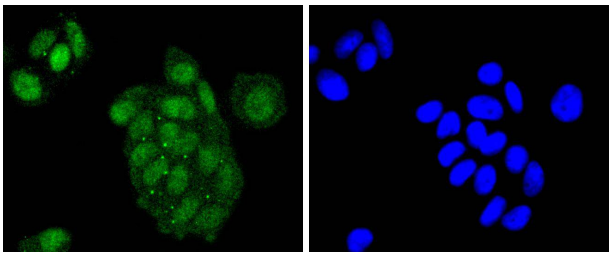
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-ATF2 antibody. Counter stained with hematoxylin.



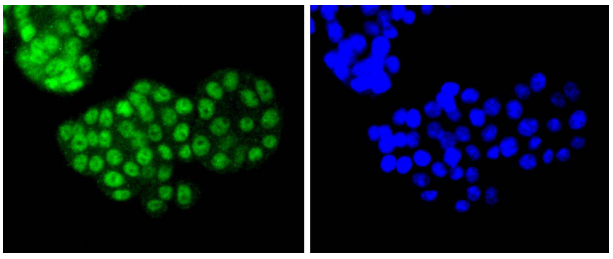
ICC staining ATF2 in SW480 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining ATF2 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining ATF2 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining ATF2 in PC-12 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

Eukaryotic gene transcription is regulated by sequence-specific transcription factors which bind modular cis-acting promotor and enhancer elements. The ATF/CREB transcription factor family binds the palindromic cAMP response element (CRE) octanucleotide TGACGTCA. The ATF/CREB family includes CREB-1, CREB-2 (also designated ATF-4), ATF-1, ATF-2 and ATF-3. This family of proteins contain highly divergent N-terminal domains, but share a C-terminal leucine zipper for dimerization and DNA binding. ATF-2 forms homodimers and heterodimers with c-Jun to initiate CRE-dependent transcription. Phosphorylation of ATF-2 at Thr 69 and Thr 71 by stress-activated kinases is necessary for transcriptional activation. Myc also induces phosphorylation of ATF-2 at Thr 69 and Thr 71 to prolong the half-life of ATF-2. ATF-2 also functions as a histone acetyltransferase (HAT) by specifically acetylating histones H2B and H4 in vitro. The gene encoding human ATF-2 maps to chromosome 2q31.1.

References

1. Mamrosh JL et al. Nuclear receptor LRH-1/NR5A2 is required and targetable for liver endoplasmic reticulum stress resolution. Elife 3:e01694 (2014). 2. White SJ et al. Characterization of the differential response of endothelial cells exposed to normal and elevated laminar shear stress. J Cell Physiol 226:2841-8 (2011).

Published Papers

θ £ζΑ§ζ‘ ; ζ• ε• θ ³;Jianqiao Dong;Li Kunyan;Li Jing;Wang Bin;Wang Yanhong;Jia Hongyan;Dong Jianqiao;DONG Jianqiao;LI Kunyan;LI Jing;WANG Bin;WANG Yanhong;JIA Hongyan;θ £ ζΑ§ζ‘ ;ζ• ε• θ ³;ζ• θ• • ;η ζ ;η θ ³ηΊ';θ˝Y ηΊ'η el at., A study on mechanism of SIRT3 inducing endocrine drug resistance in breast cancer via deacetylating YME1L1, , (2024)

PMID:

Note: This product is for in vitro research use only and is not intended for use in humans or animals.