

À des fins de recherche uniquement

Anticorps Polyclonal de lapin anti-ATF4

Numéro de catalogue: 10835-1-AP

Phare

325 Publications



Informations de base

Numéro de catalogue:	BC022088	Méthode de purification:
10835-1-AP		Purification par affinité contre l'antigène
Taille:	Identification du gène (NCBI):	Dilutions recommandées:
150ul , Concentration: 1000 µg/ml by Nanodrop;	468	WB 1:500-1:1000
Hôte:	Nom complet:	IP 0.5-4.0 ug for IP and 1:200-1:1000 for WB
Lapin	activating transcription factor 4 (tax-responsive enhancer element B67)	IHC 1:50-1:500
Isotype:	MW calculé	IF 1:50-1:500
IgG	39 kDa	
Immunogen Catalog Number:	MW observés:	
AG1279	45-50 kDa	

Applications

Applications testées:	Contrôles positifs:
FC, IF, IHC, IP, WB, ELISA	WB: cellules A431, cellules HEK-293, tissu cérébral de rat
Demandes citées:	IP : cellules HEK-293,
ChIP, FC, IF, IHC, IP, WB	IHC : tissu de cancer du sein humain,
Spécificité de l'espèce:	IF : cellules HepG2, cellules HeLa traitées à la tunicamycine
Humain, rat	
Espèces citées:	
Humain, poisson-zèbre, porc, rat, Hamster	
<i>Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9,0; (*) À défaut, le démasquage de l'antigène peut être effectué avec un tampon citrate pH 6,0.</i>	

Informations générales

ATF4 is a transcription factor, that accumulates predominantly in osteoblasts, where it regulates terminal osteoblast differentiation and bone formation[PMID: 19016586]. As a basic leucine-zipper (bZip) transcription factor, ATF4 can regulate amino acid metabolism, cellular redox state, and anti-stress responses. It also regulates age-related and diet-induced obesity and glucose homeostasis in mammals, and has conserved metabolic functions in flies[PMID: 19726872]. Due to its location at chromosome 22q13, a region linked to schizophrenia, ATF4 is considered as a positional candidate gene for schizophrenia[PMID: 18163433]. Otherwise, since ATF4 is induced by tumour microenvironmental factors, and regulates processes relevant to cancer progression, it might serve as a potential therapeutic target in cancer. Endogenous ATF4 protein has a molecular mass of 50kD. [PMID: 17726049]. This antibody is a rabbit polyclonal antibody raised against full length human ATF4 antigen. The antibody recognizes the 45-50 kDa ATF4 protein and its phosphorylated forms (50 kDa). ATF4 can bind DNA as a homodimer and as a heterodimer. ATF4 is ubiquitinated by SCF(BTRC) in response to mTORC1 signal, followed by proteasomal degradation and leading to down-regulate expression of SIRT4, so the molecular weight of ATF4 may be 70 kDa.

Publications notables

Autrice	Pubmed ID	Journal	Application
Theresia Sarabhai	36178534	Diabetologia	WB
Junxia Hu	31580970	Biomed Pharmacother	WB
Jing Sun	34650437	Front Pharmacol	WB

Stockage

Stockage:

Stocker à -20°C. Stable pendant un an après l'expédition.

Tampon de stockage:

PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3

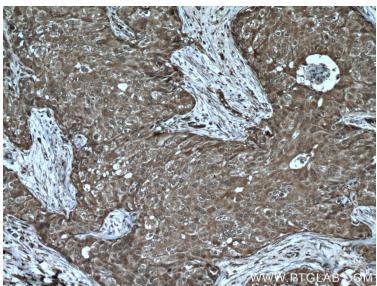
L'aliquotage n'est pas nécessaire pour le stockage à -20°C

*** Les 20ul contiennent 0,1% de BSA.

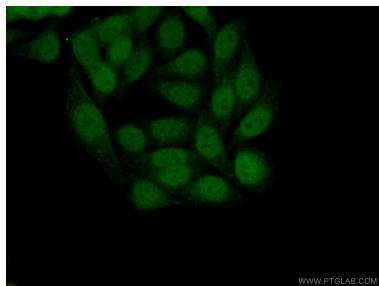
For technical support and original validation data for this product please contact:
T: 1(888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Données de validation sélectionnées



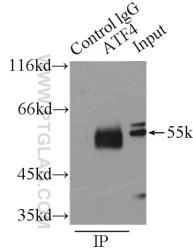
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10835-1-AP (ATF4 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



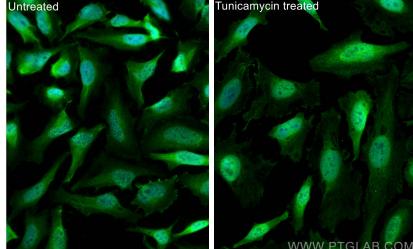
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 10835-1-AP (ATF4 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



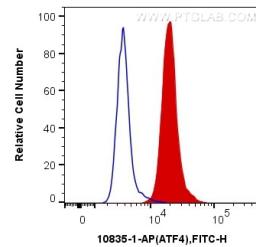
A431 cells were subjected to SDS PAGE followed by western blot with 10835-1-AP (ATF4 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP Result of anti-ATF4 (IP:10835-1-AP, 3ug; Detection:10835-1-AP 1:400) with HEK-293 cells lysate 6000ug.



Immunofluorescent analysis of (4% PFA) fixed Tunicamycin treated HeLa cells using ATF4 antibody (10835-1-AP) at dilution of 1:400 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10⁶ HepG2 cells were intracellularly stained with 0.2 ug Anti-Human ATF4 (10835-1-AP) and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).