

À des fins de recherche uniquement

Anticorps Polyclonal de lapin anti-ATF4



Numéro de catalogue: 28657-1-AP

5 Publications

Informations de base

Numéro de catalogue: 28657-1-AP	Numéro d'acquisition GenBank: BC022088	Méthode de purification: Purification par affinité contre l'antigène
Taille: 150ul , Concentration: 1600 µg/ml by Nanodrop and 833 µg/ml by Bradford method using BSA as the standard;	Identification du gène (NCBI): 468	Dilutions recommandées: WB 1:1000-1:4000 IHC 1:50-1:500
Hôte: Lapin	Nom complet: activating transcription factor 4 (tax-responsive enhancer element B67)	
Isotype: IgG	MW calculé: 39 kDa	
Immunogen Catalog Number: AG29844	MW observés: 45-50 kDa	

Applications

Applications testées: IHC, WB, ELISA	Contrôles positifs: WB : cellules A431, cellules HeLa IHC : tissu de cancer du sein humain,
Demandes citées: WB	
Spécificité de l'espèce: Humain	
Espèces citées: Humain, souris	

Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9,0; (*) A défaut, 'le démasquage de l'antigène peut être 'effectué avec un tampon citrate pH 6,0.

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]. 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
Yan Cao	34841454	Inflammation	WB
Wenwen Liu	35786405	Autophagy	WB
Qiushuang Zhu	33450633	J Hazard Mater	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 -20C

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

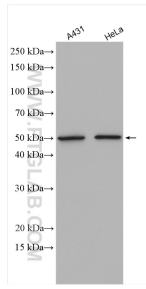
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

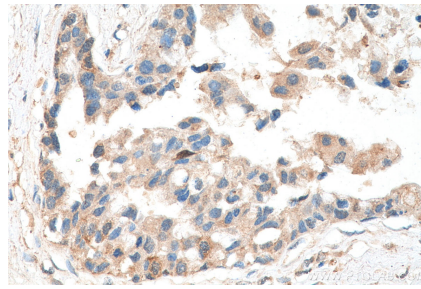
E: proteintech@ptglab.com
W: ptglab.com

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

Données de validation sélectionnées



Various lysates were subjected to SDS PAGE followed by western blot with 28657-1-AP (ATF4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 28657-1-AP (ATF4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).