

Allgemeine Informationen

Katalog-Nr.: FITC-10835	GenBank-Zugangsnummer: BC022088	Reinigungsmethode: Antigen-Affinitätsreinigung
Größe: 100ul , Konzentration: 1000 µg/ml von468	GeneID (NCBI): Vollständiger Name: activating transcription factor 4 (tax-responsive enhancer element B67)	Empfohlene Verdünnungen: IF 1:50-1:500
Nanodrop;	Berechnete Masse: 39 kDa	Anregungs-/Emissionsmaxima-Wellenlängen: 498 nm / 526 nm
Wirt: Kaninchen	Beobachtete Masse: 45-50 kDa	
Isotyp: IgG		
Immunogen Katalognummer: AG1279		

Anwendungen

Geprüfte Anwendungen: FC (Intra), IF	Positivkontrollen: IF : HepG2-Zellen, mit Tunicamycin behandelte HeLa-Zellen
In Publikationen genannte Anwendungen: IF	
Getestete Reaktivität: Human, Maus	
Zitierte Arten: Human	

Hintergrundinformationen

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 38kd ATF4 protein and its phosphorylated forms (50kd). 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.

Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Yibo Dong	30181714	Cancer Cell Int	IF

Lagerung

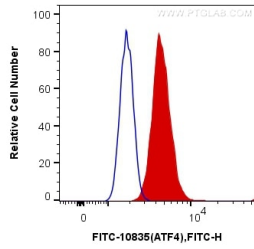
Lagerungsbedingungen:
Bei -20°C lagern. Vor Licht schützen. Nach dem Versand ein Jahr stabil.
Lagerungspuffer:
BS mit 50% Glycerin, 0,05% Proclin300, 0,5% BSA, pH 7,3.
Aliquotieren ist nicht notwendig bei -20°C Lagerung

***** 20ul-Größen enthalten 0.1% BSA**

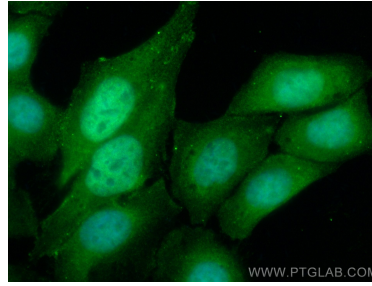
For technical support and original validation data for this product please contact:
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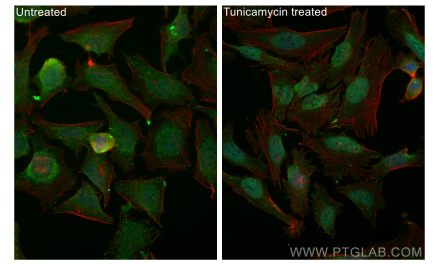
Ausgewählte Validierungsdaten



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug FITC Anti-Human ATF4 (FITC-10835) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using FITC ATF4 antibody (FITC-10835) at dilution of 1:200.



Immunofluorescent analysis of (4% PFA) fixed Tunicamycin treated HeLa cells using FITC ATF4 antibody (FITC-10835) at dilution of 1:200, CL594-Phalloidin (red).