For Research Use Only

ATF4 Monoclonal antibody

Catalog Number:60035-1-lg Featured Product 55 Publications





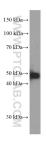
Basic Information	Catalog Number: 60035-1-lg	GenBank Accession Number: BC022088	Purification Method: Protein G purification
	Size: 150ul, Concentration: 1000 ug/ml by Nanodrop; Source: Mouse Isotype: IgG1 Immunogen Catalog Number: AG1279	GeneID (NCBI): 468 UNIPROT ID: P18848 Full Name: activating transcription factor 4 (transponsive enhancer element B6 Calculated MW: 39 kDa Observed MW: 45-50 kDa	CloneNo.: 3E4C5 Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500
Applications	Tested Applications:Positive Controls:WB, IHC, FC (Intra), ELISAWB : HepG2 cells, human placenta tissue, HEK-293Cited Applications:cells, HSC-T6 cells, NIH/3T3 cellsWB, IHC, IF, ChIPIHC : human pancreas cancer tissue, human breastSpecies Specificity:cancer tissue, human small intestine tissue, humanhuman, mouse, ratpancreas tissueCited Species:human, mouse, rat, pigNote-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		
	ATF4 is a transcription factor, that accumulates predominantly in osteoblasts, where it regulates terminal osteoblast differentiation and bone formation. 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. Due to its location at chromosome 22q13, a region linked to schizophrenia, ATF4 is considered as a positional candidate gene for schizophrenia. 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. This antibody is a mouse monoclonal antibody raised against full length human ATF4 antigen. The antibody recognizes the 45-50 kDa ATF4 protein and its phosphorylated forms (50 kDa).		
Background Information	differentiation and bone formation. A acid metabolism, cellular redox state obesity and glucose homeostasis in r chromosome 22q13, a region linked t schizophrenia. Otherwise, since ATF2 relevant to cancer progression, it mig monoclonal antibody raised against	is a basic leucine-zipper (bZip) tran e, and anti-stress responses. It also nammals, and has conserved meta to schizophrenia, ATF4 is considere this induced by tumour microenvirc ht serve as a potential therapeutic full length human ATF4 antigen. Th	nscription factor, ATF4 can regulate amino regulates age-related and diet-induced bolic functions in flies. Due to its location at ed as a positional candidate gene for mmental factors, and regulates processes target in cancer. This antibody is a mouse
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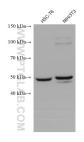
E: proteintech@ptglab.com W: ptglab.com

Group brand and is not available to purchase from any other manufacturer.

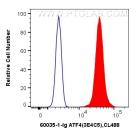
Selected Validation Data



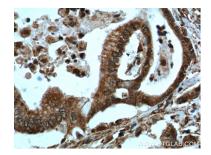
HepG2 cells were subjected to SDS PAGE followed by western blot with 60035-1-Ig (ATF4 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 60035-1-lg (ATF4 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



1X10^{^6} HeLa cells were intracellularly stained with 0.4 ug Anti-Human ATF4 (60035-1-Ig, Clone:3E4C5) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunohistochemical analysis of paraffinembedded human pancreas cancer tissue slide using 60035-1-Ig (ATF4 Antibody) at dilution of 1:200 (under 40x lens).