

For Research Use Only

ATF4 Monoclonal antibody

Catalog Number: 60035-1-Ig **13 Publications**



Basic Information

Catalog Number: 60035-1-Ig	GenBank Accession Number: BC022088	Purification Method: Protein A purification
Size: 150ul , Concentration: 1200 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 468	CloneNo.: 3E4C5
Source: Mouse	Full Name: activating transcription factor 4 (tax-responsive enhancer element B67)	Recommended Dilutions: WB 1:1000-1:4000
IsoType: IgG1	Calculated MW: 39 kDa	
Immunogen Catalog Number: AG1279	Observed MW: 45-50 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HepG2 cells, HEK-293 cells, human placenta tissue
Cited Applications: ChIP, IF, IHC, WB	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse	

Background Information

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Il-Je Cho	34679678	Antioxidants (Basel)	WB
Jingjing Wu	33115703	Biol Open	IF
Li Xue Wang	34741186	Cell Mol Life Sci	WB

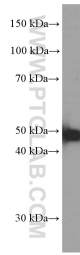
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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)
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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.