

For Research Use Only

# ATF5 Monoclonal antibody

Catalog Number: 67066-1-Ig **5 Publications**



## Basic Information

<b>Catalog Number:</b> 67066-1-Ig	<b>GenBank Accession Number:</b> BC005174	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul, Concentration: 2300 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 22809	<b>CloneNo.:</b> 1E5B6
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9Y2D1	<b>Recommended Dilutions:</b> WB 1:2000-1:16000
<b>Isotype:</b> IgG2b	<b>Full Name:</b> activating transcription factor 5	
<b>Immunogen Catalog Number:</b> AG7214	<b>Calculated MW:</b> 31 kDa	
	<b>Observed MW:</b> 30-35 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : Jurkat cells, HeLa cells, HEK-293 cells, SH-SY5Y cells, A431 cells, HT-29 cells, MCF-7 cells, MDA-MB-231 cells, SK-BR-3 cells, T-47D cells
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> Human	
<b>Cited Species:</b> human, mouse, chicken	

## Background Information

ATF5, also named as Activating transcription factor 5, is a 282 amino acid protein, which belongs to the bZIP family. ATF5 is widely expressed with higher expression levels in liver. ATF5 is actively transported to the centrosome and accumulated in the pericentriolar material (PCM) during G1 to M phase via a microtubule-dependent mechanism. During late telophase and cytokinesis, it translocates from the centrosome to the midbody (PMID: 26213385). ATF5 as a transcription factor that either stimulates or represses gene transcription through binding of different DNA regulatory elements such as cAMP response element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3'), ATF5-specific response element (ARE) (consensus: 5'-C[CT]TCT[CT]CCTT[AT]-3') but also the amino acid response element (AARE), present in many viral and cellular promoters. Critically ATF5 is involved, often in a cell type-dependent manner, in cell survival, proliferation, and differentiation (PubMed:10373550, PubMed:15358120, PubMed:21212266, PubMed:20654631).

## Notable Publications

Author	Pubmed ID	Journal	Application
Kosei Yamashita	36217717	FEBS Open Bio	WB
Meiyu Cheng	35163244	Int J Mol Sci	WB
Yushi Otsuka	39821719	FEBS Open Bio	WB

## Storage

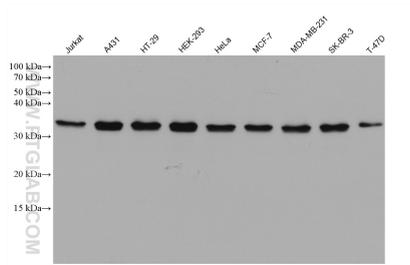
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% 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

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67066-1-Ig (ATF5 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.