

## ATF3 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant ATF3.

Catalog # AT1222a

### Specification

#### ATF3 Antibody (monoclonal) (M01) - Product Information

|                   |                          |
|-------------------|--------------------------|
| Application       | WB, E                    |
| Primary Accession | <a href="#">P18847</a>   |
| Other Accession   | <a href="#">BC006322</a> |
| Reactivity        | Human                    |
| Host              | Mouse                    |
| Clonality         | Monoclonal               |
| Isotype           | IgG3 Kappa               |
| Calculated MW     | 20576                    |

#### ATF3 Antibody (monoclonal) (M01) - Additional Information

Gene ID 467

#### Other Names

Cyclic AMP-dependent transcription factor  
ATF-3, cAMP-dependent transcription factor  
ATF-3, Activating transcription factor 3,  
ATF3

#### Target/Specificity

ATF3 (AAH06322, 1 a.a. ~ 181 a.a)  
full-length recombinant protein with GST  
tag. MW of the GST tag alone is 26 KDa.

#### Dilution

WB~~1:500~1000

#### Format

Clear, colorless solution in phosphate  
buffered saline, pH 7.2 .

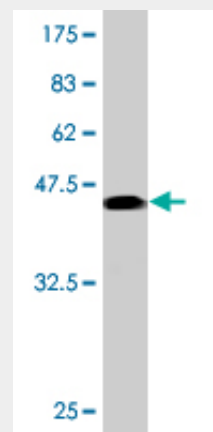
#### Storage

Store at -20°C or lower. Aliquot to avoid  
repeated freezing and thawing.

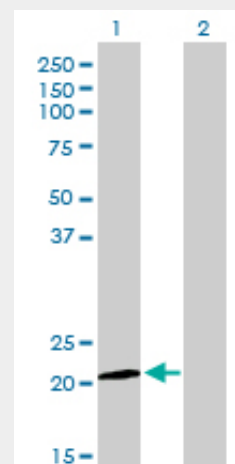
#### Precautions

ATF3 Antibody (monoclonal) (M01) is for  
research use only and not for use in  
diagnostic or therapeutic procedures.

#### ATF3 Antibody (monoclonal) (M01) -



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (45.65 KDa) .



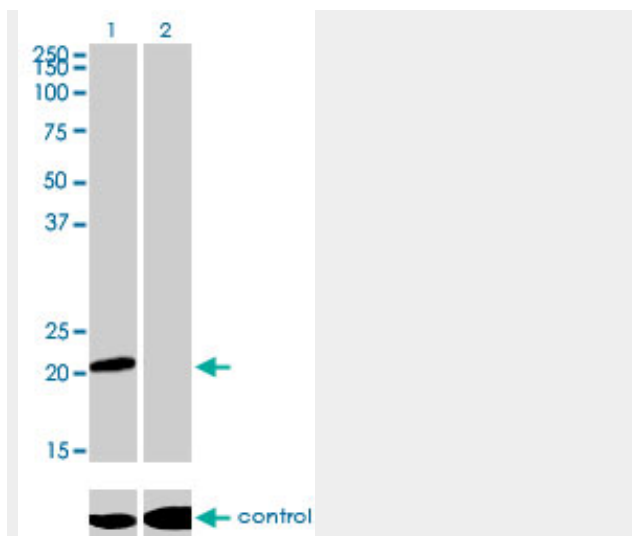
Western Blot analysis of ATF3 expression in transfected 293T cell line by ATF3 monoclonal antibody (M01), clone 6B8.

Lane 1: ATF3 transfected lysate(20.6 KDa).  
Lane 2: Non-transfected lysate.

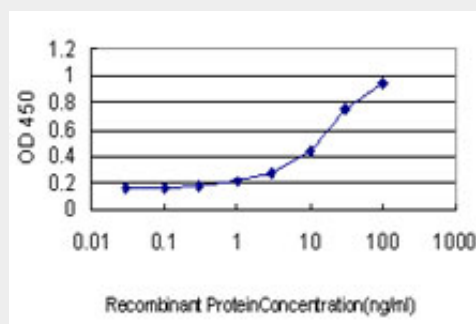
## Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)



Western blot analysis of ATF3 over-expressed 293 cell line, cotransfected with ATF3 Validated Chimera RNAi (Cat # AT1222a)



Detection limit for recombinant GST tagged ATF3 is approximately 1ng/ml as a capture antibody.

## ATF3 Antibody (monoclonal) (M01) - Background

Activating transcription factor 3 is a member of the mammalian activation transcription factor/cAMP responsive element-binding (CREB) protein family of transcription factors. Multiple transcript variants encoding two different isoforms have been found for this gene. The longer isoform represses rather than activates transcription from promoters with ATF binding elements. The shorter isoform (deltaZip2) lacks the leucine zipper protein-dimerization motif and does not bind to DNA, and it stimulates transcription presumably by sequestering inhibitory co-factors away from the promoter. It is possible that alternative splicing of the ATF3

gene may be physiologically important in the regulation of target genes.

**ATF3 Antibody (monoclonal) (M01) -  
References**

1. Transcriptional regulators of the  $\gamma$ GNP63: Their role in limbal epithelial cell proliferation. Hsueh YJ, Kuo PC, Chen JK. J Cell Physiol. 2012 Jul 17. doi: 10.1002/jcp.24160.
2. Steroids and extracellular signal-regulated kinase 1/2 activity suppress activating transcription factor 3 expression in patients with severe asthma. Roussel L, Robins S, Schachter A, Berube J, Hamid Q, Rousseau S. J Allergy Clin Immunol. 2011 Apr 22. [Epub ahead of print]
3. Energy restriction-mimetic agents induce apoptosis in prostate cancer cells, in part, through epigenetic activation of KLF6 tumor suppressor gene expression. Chen CH, Huang PH, Chu PC, Chen MC, Chou CC, Wang D, Kulp SK, Teng CM, Wang Q, Chen CS. J Biol Chem. 2011 Feb 3. [Epub ahead of print]