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ATF3 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant ATF3.
Catalog # AT1222a

Product Information

Application	WB, E
Primary Accession	P18847
Other Accession	BC006322
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG3 Kappa
Clone Names	6B8
Calculated MW	20576

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 E~~N/A
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.

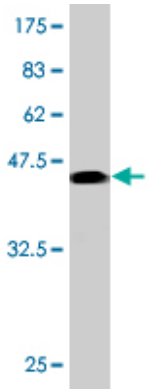
Background

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.

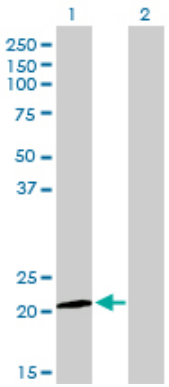
References

1.Transcriptional regulators of the ?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]

Images

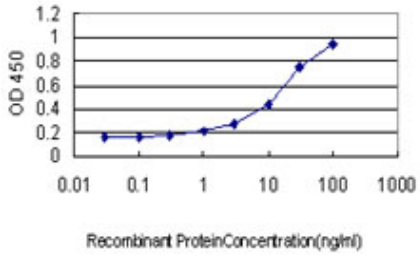


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (45.65 KDa) .

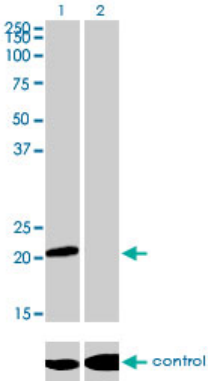


Western Blot analysis of ATF3 expression in transfected 293T cell line by ATF3 monoclonal antibody (M01), clone 6B8.

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



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



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.