

# TFAP4 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant TFAP4.

Catalog # AT4213a

## Product Information

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<b>Application</b>	WB, IHC, IF, E
<b>Primary Accession</b>	<a href="#">Q01664</a>
<b>Other Accession</b>	<a href="#">NM_003223</a>
<b>Reactivity</b>	Human
<b>Host</b>	mouse
<b>Clonality</b>	monoclonal
<b>Isotype</b>	IgG2a Kappa
<b>Clone Names</b>	6B1
<b>Calculated MW</b>	38726

## Additional Information

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<b>Gene ID</b>	7023
<b>Other Names</b>	Transcription factor AP-4, Activating enhancer-binding protein 4, Class C basic helix-loop-helix protein 41, bHLHc41, TFAP4, BHLHC41
<b>Target/Specificity</b>	TFAP4 (NP_003214, 93 a.a. ~ 192 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Dilution</b>	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 E~~N/A
<b>Format</b>	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
<b>Precautions</b>	TFAP4 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

## Background

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Transcription factors of the basic helix-loop-helix-zipper (bHLH-ZIP) family contain a basic domain, which is used for DNA binding, and HLH and ZIP domains, which are used for oligomerization. Transcription factor AP4 activates both viral and cellular genes by binding to the symmetrical DNA sequence CAGCTG (Mermoud et al., 1988 [PubMed 2833704]; Hu et al., 1990 [PubMed 2123466]).

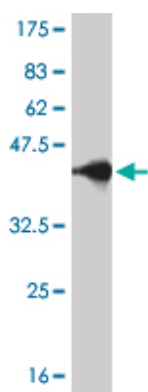
## References

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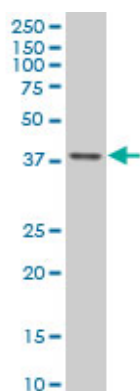
Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732. Complementary quantitative proteomics reveals that transcription factor AP-4 mediates

E-box-dependent complex formation for transcriptional repression of HDM2. Ku WC, et al. Mol Cell Proteomics, 2009 Sep. PMID 19505873. AP4 encodes a c-MYC-inducible repressor of p21. Jung P, et al. Proc Natl Acad Sci U S A, 2008 Sep 30. PMID 18818310. Upregulation of activator protein-4 in human colorectal cancer with metastasis. Cao J, et al. Int J Surg Pathol, 2009 Feb. PMID 18480385. Transfer-NMR and docking studies identify the binding of the peptide derived from activating transcription factor 4 to protein ubiquitin ligase beta-TrCP. Competition STD-NMR with beta-catenin. Pons J, et al. Biochemistry, 2008 Jan 8. PMID 18052253.

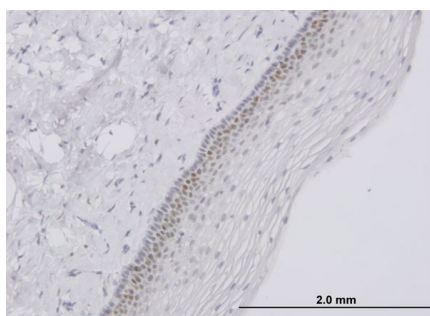
## Images



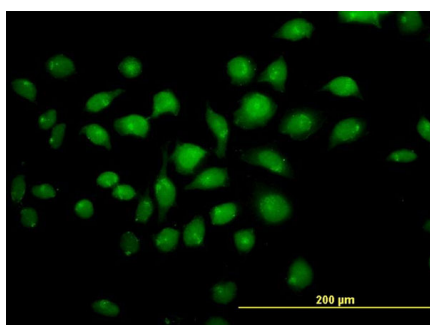
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .



TFAP4 monoclonal antibody (M01), clone 6B1 Western Blot analysis of TFAP4 expression in HeLa S3 NE (Cat # AT4213a )

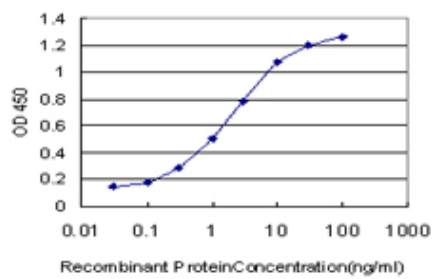


Immunoperoxidase of monoclonal antibody to TFAP4 on formalin-fixed paraffin-embedded human uterine cervix. [antibody concentration 1 ug/ml]



Immunofluorescence of monoclonal antibody to TFAP4 on HeLa cell. [antibody concentration 10 ug/ml]

Detection limit for recombinant GST tagged TFAP4 is



approximately 0.1ng/ml as a capture antibody.

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