

**USF2 Antibody (monoclonal) (M03)****Mouse monoclonal antibody raised against a partial recombinant USF2.****Catalog # AT4480a****Specification**

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**USF2 Antibody (monoclonal) (M03) - Product Information**

Application	WB, IF, E
Primary Accession	<a href="#">Q15853</a>
Other Accession	<a href="#">NM_003367</a>
Reactivity	Human, Rat
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	36955

**USF2 Antibody (monoclonal) (M03) - Additional Information****Gene ID** 7392**Other Names**

Upstream stimulatory factor 2, Class B basic helix-loop-helix protein 12, bHLHb12, FOS-interacting protein, FIP, Major late transcription factor 2, Upstream transcription factor 2, USF2, BHLHB12

**Target/Specificity**

USF2 (NP\_003358, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

IF~~1:50~200

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**

USF2 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

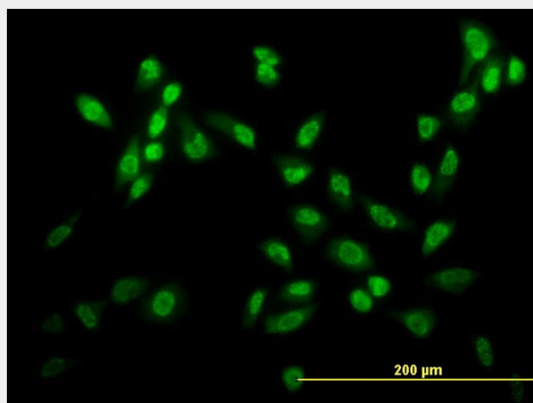
**USF2 Antibody (monoclonal) (M03) - Protocols**

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

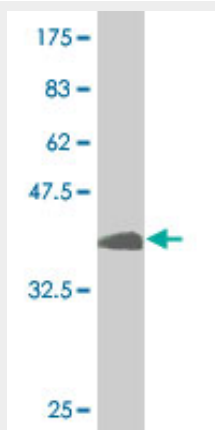
- [Western Blot](#)

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

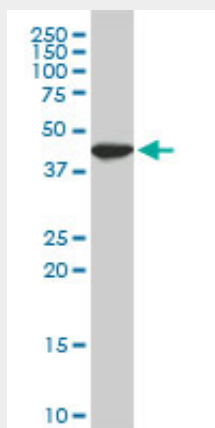
### USF2 Antibody (monoclonal) (M03) - Images



Immunofluorescence of monoclonal antibody to USF2 on HeLa cell. [antibody concentration 10 ug/ml]



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



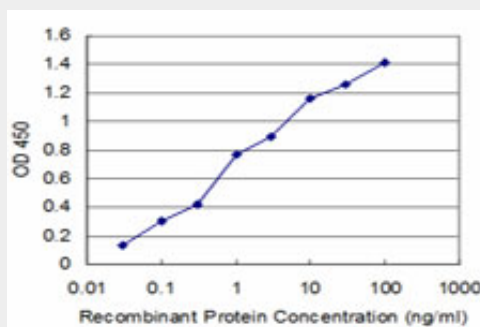
USF2 monoclonal antibody (M03), clone 6A9. Western Blot analysis of USF2 expression in PC-12 (Cat # AT4480a )



USF2 monoclonal antibody (M03), clone 6A9. Western Blot analysis of USF2 expression in HeLa S3 NE (Cat # AT4480a )



USF2 monoclonal antibody (M03), clone 6A9. Western Blot analysis of USF2 expression in different cell lines.



Detection limit for recombinant GST tagged USF2 is approximately 0.03ng/ml as a capture antibody.

### USF2 Antibody (monoclonal) (M03) - Background

This gene encodes a member of the basic helix-loop-helix leucine zipper family, and can function as a cellular transcription factor. The encoded protein can activate transcription through pyrimidine-rich initiator (Inr) elements and E-box motifs. Two transcript variants encoding distinct isoforms have been identified for this gene.

### USF2 Antibody (monoclonal) (M03) - References

Upstream stimulatory factor 2, a novel FoxA1-interacting protein, is involved in prostate-specific gene expression. Sun Q, et al. Mol Endocrinol, 2009 Dec. PMID 19846536. The variant rs1867277 in FOXE1 gene confers thyroid cancer susceptibility through the recruitment of USF1/USF2

transcription factors. Landa I, et al. PLoS Genet, 2009 Sep. PMID 19730683. HINT1 inhibits beta-catenin/TCF4, USF2 and NFkappaB activity in human hepatoma cells. Wang L, et al. Int J Cancer, 2009 Apr 1. PMID 19089909. Upstream stimulatory factors are involved in the P1 promoter directed transcription of the A beta H-J-J locus. Finotti A, et al. BMC Mol Biol, 2008 Dec 16. PMID 19087304. Down-regulation of hsa-miR-10a in chronic myeloid leukemia CD34+ cells increases USF2-mediated cell growth. Agirre X, et al. Mol Cancer Res, 2008 Dec. PMID 19074828.