

USF2 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant USF2.****Catalog # AT4478a****Specification**

USF2 Antibody (monoclonal) (M01) - Product Information

Application	WB, IHC, IF, E
Primary Accession	Q15853
Other Accession	NM_003367
Reactivity	Human, Rat
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	36955

USF2 Antibody (monoclonal) (M01) - 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.

DilutionWB~~1:500~1000
IHC~~1:100~500
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

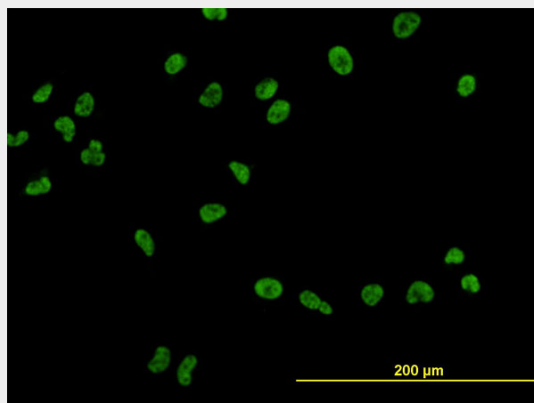
USF2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

USF2 Antibody (monoclonal) (M01) - Protocols

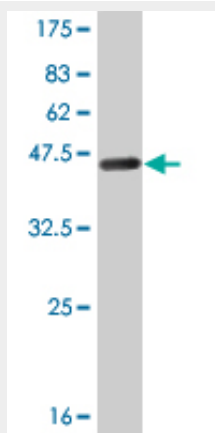
Provided below are standard protocols that you may find useful for product applications.

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

USF2 Antibody (monoclonal) (M01) - Images



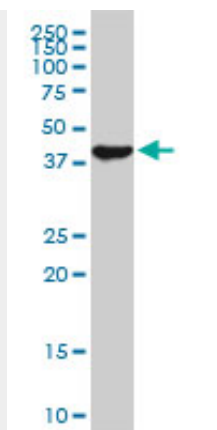
Immunofluorescence of monoclonal antibody to USF2 on HeLa cell. [antibody concentration 10 ug/ml]



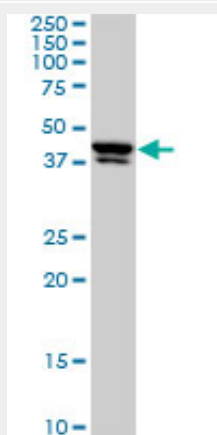
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .



USF2 monoclonal antibody (M01), clone 5E9. Western Blot analysis of USF2 expression in HeLa.



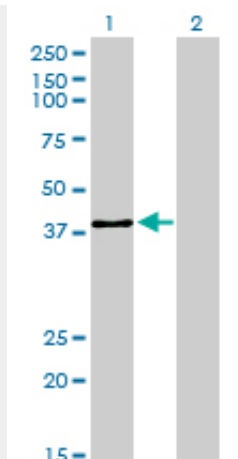
USF2 monoclonal antibody (M01), clone 5E9. Western Blot analysis of USF2 expression in PC-12 (Cat # AT4478a)



USF2 monoclonal antibody (M01), clone 5E9. Western Blot analysis of USF2 expression in HeLa S3 NE (Cat # AT4478a)



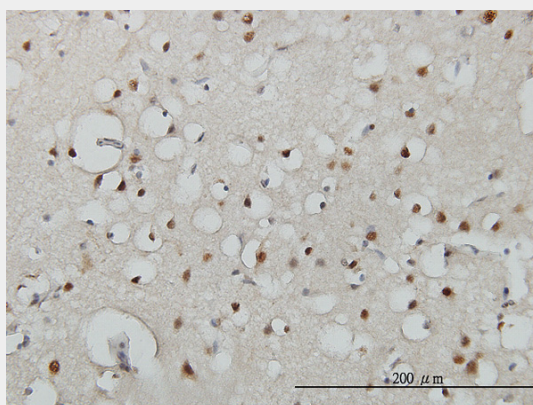
USF2 monoclonal antibody (M01), clone 5E9. Western Blot analysis of USF2 expression in different cell lines.



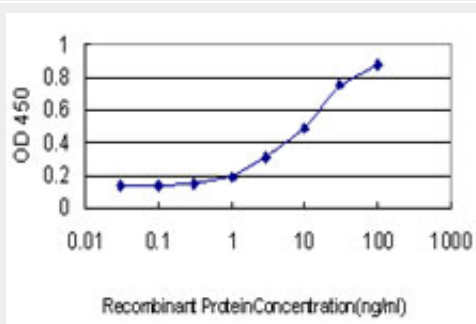
Western Blot analysis of USF2 expression in transfected 293T cell line by USF2 monoclonal antibody (M01), clone 5E9.

Lane 1: USF2 transfected lysate(37 KDa).

Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to USF2 on formalin-fixed paraffin-embedded human cerebral cortex. [antibody concentration 1 ug/ml]



Detection limit for recombinant GST tagged USF2 is approximately 0.3ng/ml as a capture antibody.

USF2 Antibody (monoclonal) (M01) - 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) (M01) - 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.