

USF2 Antibody (monoclonal) (M02)**Mouse monoclonal antibody raised against a partial recombinant USF2.****Catalog # AT4479a****Specification**

USF2 Antibody (monoclonal) (M02) - Product Information

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

USF2 Antibody (monoclonal) (M02) - 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

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) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

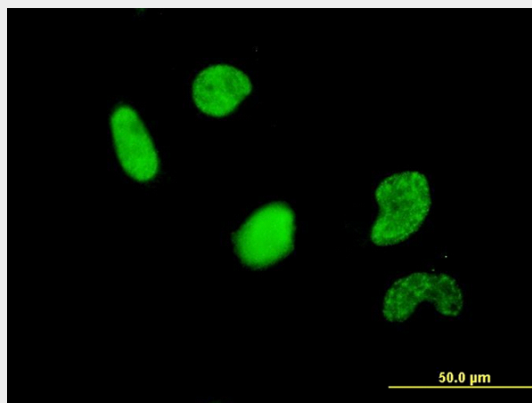
USF2 Antibody (monoclonal) (M02) - Protocols

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](#)

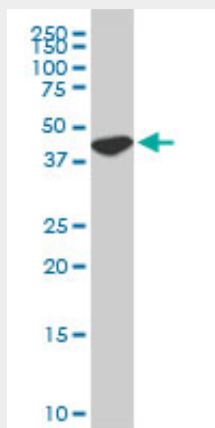
USF2 Antibody (monoclonal) (M02) - Images



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 (M02), clone 5F2. Western Blot analysis of USF2 expression in PC-12 (

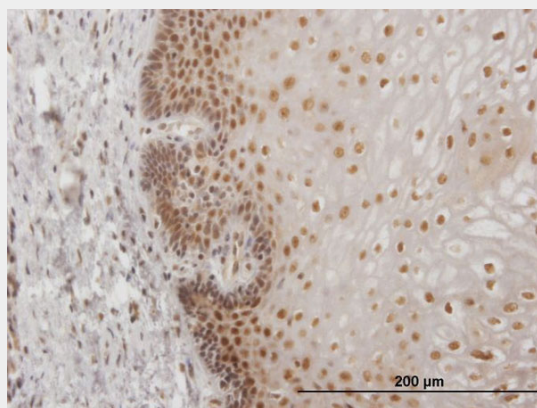
(Cat # AT4479a)



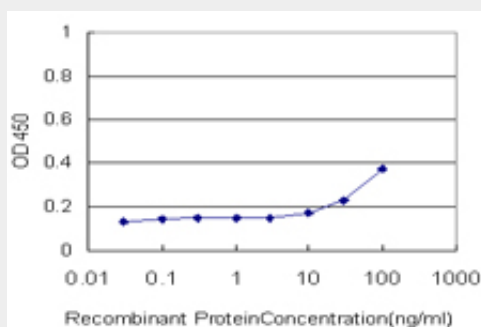
USF2 monoclonal antibody (M02), clone 5F2. Western Blot analysis of USF2 expression in HeLa S3 NE (Cat # AT4479a)



USF2 monoclonal antibody (M02), clone 5F2. Western Blot analysis of USF2 expression in different cell lines.



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



Detection limit for recombinant GST tagged USF2 is approximately 10ng/ml as a capture

antibody.

USF2 Antibody (monoclonal) (M02) - 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) (M02) - 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.