

USF2 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant USF2.

Catalog # AT4479a

Product Information

Application	WB, IHC, IF, E
Primary Accession	Q15853
Other Accession	NM_003367
Reactivity	Human, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	5F2
Calculated MW	36955

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

Background

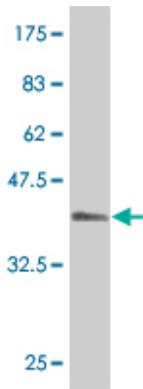
This gene encodes a member of the basic helix-loop-helix leucine zipper family, and can function as a cellular transcription factor. The encoded protein can activate transcription through pyrimidine-rich initiator (Inr) elements and E-box motifs. Two transcript variants encoding distinct isoforms have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

References

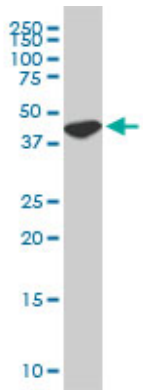
Upstream stimulatory factor 2, a novel FoxA1-interacting protein, is involved in prostate-specific gene

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.

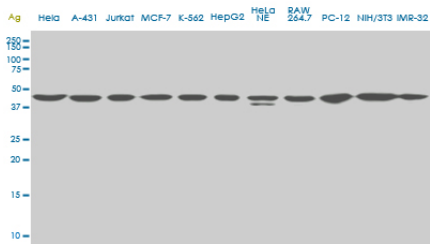
Images



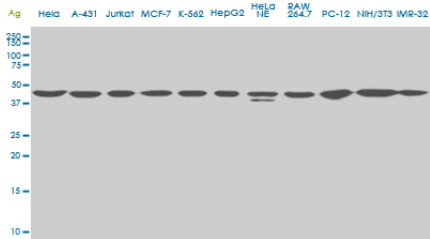
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



USF2 monoclonal antibody (M02), clone 5F2. Western Blot analysis of USF2 expression in PC-12 ((Cat # AT4479a)

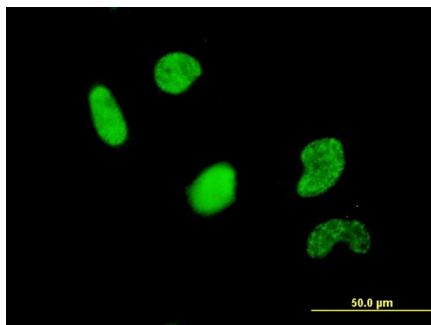
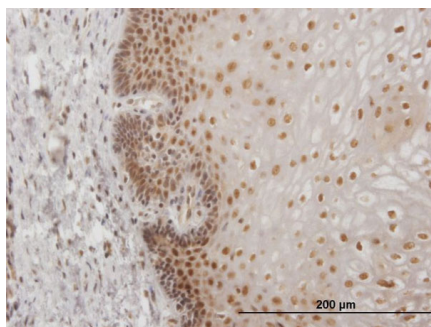


USF2 monoclonal antibody (M02), clone 5F2. Western Blot analysis of USF2 expression in Hela S3 NE ((Cat # AT4479a)

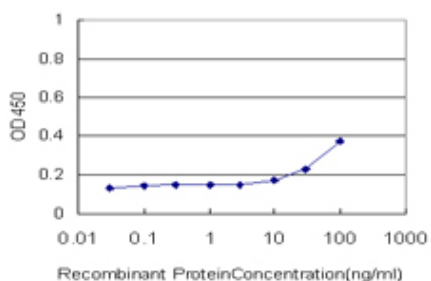


USF2 monoclonal antibody (M02), clone 5F2. Western Blot analysis of USF2 expression in different cell lines.

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



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



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

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