

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
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

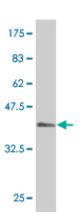
This gene encodes a member of the basic helix-loop-helix leucine zipper family, and can function as a cellular transcription factor. The encoded protein can activate transcription through pyrimidine-rich initiator (Inr) elements and E-box motifs. Two transcript variants encoding distinct isoforms have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

References

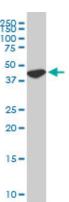
Upstream stimulatory factor 2, a novel FoxA1-interacting protein, is involved in prostate-specific gene

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



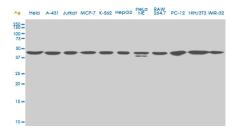
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



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

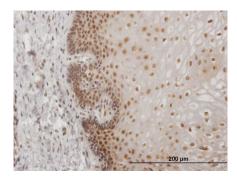


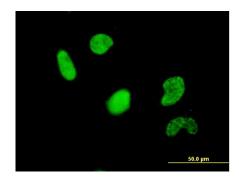
USF2 monoclonal antibody (M02), clone 5F2. Western Blot analysis of USF2 expression in Hela S3 NE ((Cat # AT4479a)



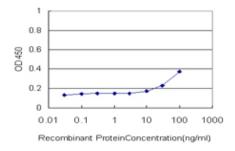
USF2 monoclonal antibody (M02), clone 5F2. Western Blot analysis of USF2 expression in different cell lines.

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'.