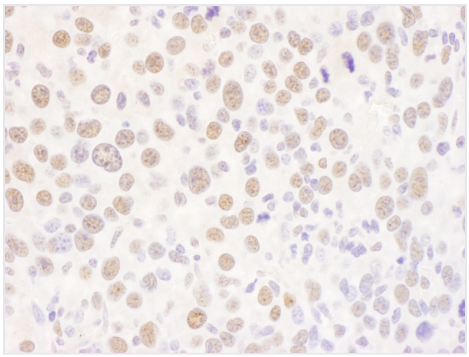
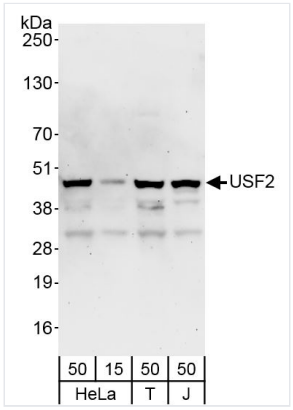
USF2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

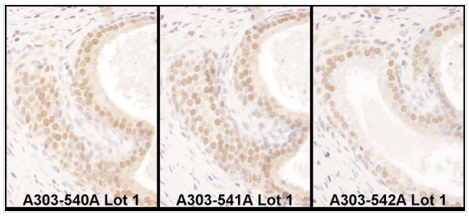
Product Name	USF2, Polyclonal Antibody
Full Product Name	Rabbit anti-USF2 Antibody, Affinity Purified
Product Gene Name	anti-USF2 antibody
Product Synonym Names	major late transcription factor 2; bHLHb12; upstream stimulatory factor 2; Upstream transcription factor 2; FIP; c-fos interacting protein; class B basic helix-loop-helix protein 12; FOS-interacting protein; Upstream stimulatory factor 2; upstream transcription factor 2, c-fos interacting
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Purity/Purification	Antigen Affinity Purified
Concentration	1000ug/ml (lot specific)
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt
Molecular Weight	36,955 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (35759896..35770718). Location: 19q13
OMIM	600390
3D Structure	ModBase 3D Structure for Q15853
Predicted Reactivity	Rat
Immunogen	Between 1 and 50
Conjugation	Unconjugated
Product Categories/Family for anti-USF2 antibody	Primary Antibodies
Applications Tested/Suitable for anti-USF2 antibody	Western Blot (WB), Immunoprecipitation (IP), Immunohistochemistry (IHC)
Application Notes for anti-USF2 antibody	WB: 1:2000-1:10,000 IP: 6ug/mg lysate IHC: 1:1000-1:5000. Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections.
Related Product Information for anti-USF2 antibody	Upstream stimulatory factor 2 (USF2) is a transcription factor that binds to a symmetrical DNA sequence (E-box) (5'-CACGTG-3') that is found in a variety of viral and cellular promoters [taken from the Universal Protein Resource (UniProt) www.uniprot.org/uniprot/Q15853].
Other Notes	Small volumes of anti-USF2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for USF2 purchase	MBS3903806 is an antibody targeting USF2. Also known as Rabbit anti-USF2 Antibody, Affinity Purified. Reactive in Human, Mouse. Host: Rabbit.



Immunohistochemistry (IHC) of anti-USF2 antibody
Detection of mouse USF2 by immunohistochemistry. Sample: FFPE section of mouse renal cell carcinoma. Antibody: Affinity purified rabbit anti-USF2 (Cat. No. MBS3903806 Lot1) used at a dilution of 1:1,000 (1ug/ml). Detection: DAB



Western Blot (WB) of anti-USF2 antibody
Detection of human USF2 by western blot. Samples: Whole cell lysate from HeLa (15 and 50 ug), HEK293T (T; 50 ug), and Jurkat (J; 50 ug) cells. Antibody: Affinity purified rabbit anti-USF2 antibody MBS3903806 (lot MBS3903806-1) used at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.



Immunohistochemistry (IHC) of anti-USF2 antibody
Detection of human USF2 by immunohistochemistry. Samples: FFPE serial sections of human prostate carcinoma. Antibody: Affinity purified rabbit anti-USF2 (Cat. No. MBS3903806 Lot1, left image, MBS3903807 Lot1, middle image and Cat. No. MBS3903808 Lot1, right image) used at a dilution of 1:1,000 (1ug/ml). Detection: DAB. Counterstain: Hematoxylin (blue).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for USF2. It may not necessarily be applicable to this product.

NCBI GI #	4507847
NCBI GeneID	7392
NCBI Accession #	NP_003358.1
UniProt Primary Accession #	Q15853
UniProt Secondary Accession #	O00671; O00709; Q05750; Q07952; Q15851; Q15852; Q6FI33
UniProt Related Accession #	Q15853
GenBank Nucleotide #	NM_003367.2
NCBI Official Full Name	upstream stimulatory factor 2 isoform 1
NCBI Official Synonym Full Names	upstream transcription factor 2, c-fos interacting
NCBI Official Symbol	USF2
NCBI Official Synonym Symbols	FIP; bHLHb12
UniProt Protein Name	Upstream stimulatory factor 2
UniProt Synonym Protein Names	Class B basic helix-loop-helix protein 12; bHLHb12; FOS-interacting protein; FIP; Major late transcription factor 2; Upstream transcription factor 2

Protein Family	Upstream stimulatory factor
UniProt Gene Name	USF2
UniProt Synonym Gene Names	BHLHB12; bHLHb12; FIP
UniProt Entry Name	USF2_HUMAN
NCBI Protein Information	upstream stimulatory factor 2; FOS-interacting protein; c-fos interacting protein; major late transcription factor 2; class B basic helix-loop-helix protein 12
NCBI Summary for USF2	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. [provided by RefSeq, Jul 2008]
UniProt Comments for USF2	USF2: Transcription factor that binds to a symmetrical DNA sequence (E-boxes) (5'-CACGTG-3') that is found in a variety of viral and cellular promoters. 3 isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 19q13 Cellular Component: nucleoplasm; nucleus Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; protein binding; protein homodimerization activity; sequence-specific DNA binding; protein heterodimerization activity; double-stranded DNA binding; bHLH transcription factor binding; transcription factor activity Biological Process: lactation; transcription from RNA polymerase II promoter; regulation of transcription from RNA polymerase II promoter by glucose; lipid homeostasis; late viral mRNA transcription; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription from RNA polymerase II promoter by glucose
Research Articles on USF2	**1.** USF2 and hypoxia-inducible factor 2alpha (HIF2alpha) cooperatively activate HIF2 target genes during hypoxia.
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