Upstream Stimulatory Factor 1 (USF1) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Upstream stimulatory factor 1 (USF1), Polyclonal Antibody
Full Product Name	Rabbit anti-human Upstream stimulatory factor 1 polyclonal Antibody, FITC
Product Gene Name	anti-USF1 antibody
Product Synonym Names	Class B basic helix-loop-helix protein 11; bHLHb11; BHLHB11; USF
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	Caprylic Acid Ammonium Sulfate Precipitation Purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: USF1 (MBS1489207) FITC Conjugated Antibody: USF1 (MBS1490480)
Molecular Weight	27,372 Da
OMIM	144250
3D Structure	ModBase 3D Structure for P22415
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugate	FITC
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-30898 / sc-8983 / sc-229
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-USF1 antibody	ELISA (EIA)
Related Product Information for anti-USF1 antibody	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.
Other Notes	Small volumes of anti-USF1 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 USF1 purchase	MBS1490480 is an antibody targeting USF1. Also known as Rabbit anti-human Upstream stimulatory factor 1 polyclonal Antibody, FITC. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for USF1. It may not necessarily be applicable to this product.

NCBI GI #	444909174
NCBI GeneID	7391
NCBI Accession #	NP_001263302.1

UniProt Primary Accession #	P22415
UniProt Secondary Accession #	Q5SY46; Q7Z5Y1; B2RBZ4
UniProt Related Accession #	P22415
GenBank Nucleotide #	NM_001276373.1
NCBI Official Full Name	upstream stimulatory factor 1 isoform 1
NCBI Official Synonym Full Names	upstream transcription factor 1
NCBI Official Symbol	USF1
NCBI Official Synonym Symbols	UEF; FCHL; MLTF; FCHL1; MLTFI; HYPLIP1; bHLHb11
UniProt Protein Name	Upstream stimulatory factor 1
UniProt Synonym Protein Names	Class B basic helix-loop-helix protein 11; bHLHb11; Major late transcription factor 1
Protein Family	Upstream stimulatory factor
UniProt Gene Name	USF1
UniProt Synonym Gene Names	BHLHB11; USF; bHLHb11
UniProt Entry Name	USF1_HUMAN
NCBI Protein Information	upstream stimulatory factor 1
NCBI Summary for USF1	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. This gene has been linked to familial combined hyperlipidemia (FCHL). Alternative splicing of this gene results in multiple transcript variants. A related pseudogene has been defined on chromosome 21. [provided by RefSeq, Feb 2013]
UniProt Comments for USF1	USF1: 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. Efficient DNA binding requires dimerization with another bHLH protein. Binds DNA as an homodimer or a heterodimer (USF1/USF2). Interacts with varicella-zoster virus IE62 protein. Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 1q22-q23 Cellular Component: nucleoplasm; nucleus; transcription factor complex Molecular Function: bHLH transcription factor binding; double-stranded DNA binding; enzyme binding; histone deacetylase binding; protein binding; protein heterodimerization activity; protein homodimerization activity; protein kinase binding; RNA polymerase II transcription factor activity, enhancer binding; sequence-specific DNA binding Biological Process: cellular response to insulin stimulus; glucose homeostasis; glucose metabolic process; late viral mRNA transcription; lipid homeostasis; negative regulation of fibrinolysis; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription from RNA polymerase II promoter by glucose; regulation of transcription by carbon catabolites; regulation of transcription from RNA polymerase II promoter; regulation of transcription from RNA polymerase II promoter by glucose; response to hypoxia; response to UV; transcription from RNA polymerase II promoter Disease: Hyperlipidemia, Combined, 1
Research Articles on USF1	**1.** Rta autoregulates BRLF1 transcription via its interaction with USF1 on E1.
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