FUBP1 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	FUBP1, Blocking Peptide
Full Product Name	FUBP1 Blocking Peptide
Product Gene Name	FUBP1 blocking peptide
Product Synonym Names	DNA helicase V; far upstream element (FUSE) binding protein 1; Far upstream element (FUSE) binding protein 4; Far upstream element binding protein 1; far upstream element binding protein; Far upstream element-binding protein 1; FBP; FUBP; Fubp1; FUBP1_HUMAN; Fubp4; FUSE binding protein 1; FUSE-binding protein 1; HDH V
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	FUBP1 peptide (MBS9623112) is used for blocking the activity of FUBP1 antibody (MBS9604395)
Molecular Weight	67560 MW
OMIM	603444
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for FUBP1 blocking peptide	Blocking/Control
Related Product Information for FUBP1 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of FUBP1 blocking peptide 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 FUBP1 purchase	MBS9623112 is a blocking peptide targeting FUBP1.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FUBP1. It may not necessarily be applicable to this product.

NCBI GI #	742670570
NCBI GeneID	8880
NCBI Accession #	NP_001290362.1
UniProt Primary Accession #	Q96AE4
UniProt Secondary Accession #	Q12828

UniProt Related Accession #	Q96AE4
GenBank Nucleotide #	NM_001303433.1
NCBI Official Full Name	far upstream element-binding protein 1 isoform 1
NCBI Official Synonym Full Names	far upstream element binding protein 1
NCBI Official Symbol	FUBP1
NCBI Official Synonym Symbols	FBP; FUBP; hDH V
UniProt Protein Name	Far upstream element-binding protein 1
UniProt Synonym Protein Names	DNA helicase V; hDH V
Protein Family	Far upstream element-binding protein
UniProt Gene Name	FUBP1
UniProt Synonym Gene Names	FBP; FUSE-binding protein 1; hDH V
UniProt Entry Name	FUBP1_HUMAN
NCBI Protein Information	far upstream element-binding protein 1
NCBI Summary for FUBP1	The protein encoded by this gene is a single stranded DNA-binding protein that binds to multiple DNA elements, including the far upstream element (FUSE) located upstream of c-myc. Binding to FUSE occurs on the non-coding strand, and is important to the regulation of c-myc in undifferentiated cells. This protein contains three domains, an amphipathic helix N-terminal domain, a DNA-binding central domain, and a C-terminal transactivation domain that contains three tyrosine-rich motifs. The N-terminal domain is thought to repress the activity of the C-terminal domain. This protein is also thought to bind RNA, and contains 3'-5' helicase activity with in vitro activity on both DNA-DNA and RNA-RNA duplexes. Aberrant expression of this gene has been found in malignant tissues, and this gene is important to neural system and lung development. Binding of this protein to viral RNA is thought to play a role in several viral diseases, including hepatitis C and hand, foot and mouth disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]
UniProt Comments for FUBP1	FBP1: Regulates MYC expression by binding to a single-stranded far-upstream element (FUSE) upstream of the MYC promoter. May act both as activator and repressor of transcription. 2 isoforms of the human protein are produced by alternative splicing. Protein type: RNA splicing; Motility/polarity/chemotaxis; RNA-binding; Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 1p31.1 Cellular Component: nucleoplasm; nucleus Molecular Function: protein binding; transcription factor activity; single-stranded DNA binding Biological Process: transcription from RNA polymerase II promoter; positive regulation of transcription from RNA polymerase II promoter
Research Articles on FUBP1	**1.** These results suggest that the interference with the FUBP1/FUSE interaction as a further molecular mechanism that, in addition to the inactivation of TOP1, may contribute to the therapeutic potential of camptothecin/SN-38.
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