DDX41 Blocking Peptide

PRODUCT OVERVIEW

Product Name	DDX41, Blocking Peptide
Full Product Name	DDX41 Peptide
Product Gene Name	DDX41 blocking peptide
Product Synonym Gene Name	ABS
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	DDX41 peptide (MBS3228109) is used for blocking the activity of DDX41 antibody (MBS3203136)
Molecular Weight	68kDa
OMIM	608170
Product Categories/Family for DDX41 blocking peptide	Peptide
Applications Tested/Suitable for DDX41 blocking peptide	Western Blot (WB)
Related Product Information for DDX41 blocking peptide	This is a synthetic peptide designed for use in combination with anti-DDX41 antibody made Target Description: DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure, such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of the DEAD box protein family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a member of this family. The function of this member has not been determined. Based on studies in Drosophila, the abstrakt gene is widely required during post-transcriptional gene expression.
Other Notes	Small volumes of DDX41 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 DDX41 purchase	MBS3228109 is a blocking peptide targeting DDX41. Also known as DDX41 Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DDX41. It may not necessarily be applicable to this product.

NCBI GI #	21071032
NCBI GeneID	51428
NCBI Accession #	NP_057306
UniProt Primary Accession #	Q9UJV9
UniProt Related Accession #	Q9UJV9
GenBank Nucleotide #	NM_016222
NCBI Official Full Name	probable ATP-dependent RNA helicase DDX41 isoform 1

NCBI Official Synonym Full Names	DEAD-box helicase 41
NCBI Official Symbol	DDX41
NCBI Official Synonym Symbols	ABS; MPLPF
UniProt Protein Name	Probable ATP-dependent RNA helicase DDX41
UniProt Synonym Protein Names	DEAD box protein 41; DEAD box protein abstrakt homolog
Protein Family	Probable ATP-dependent RNA helicase
UniProt Gene Name	DDX41
UniProt Synonym Gene Names	ABS
UniProt Entry Name	DDX41_HUMAN
NCBI Protein Information	probable ATP-dependent RNA helicase DDX41
NCBI Summary for DDX41	DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure, such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of the DEAD box protein family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. The protein encoded by this gene is a member of the DEAD box protein family and interacts with several spliceosomal proteins. In addition, the encoded protein may recognize the bacterial second messengers cyclic di-GMP and cyclic di-AMP, resulting in the induction of genes involved in the innate immune response. [provided by RefSeq, Jan 2017]
UniProt Comments for DDX41	DDX41: Probable ATP-dependent RNA helicase. Is required during post-transcriptional gene expression. May be involved in pre-mRNA splicing. Belongs to the DEAD box helicase family. DDX41 subfamily. Protein type: Spliceosome; RNA-binding; RNA splicing; EC 3.6.4.13; Helicase Chromosomal Location of Human Ortholog: 5q35.3 Cellular Component: membrane; endoplasmic reticulum; cytosol Molecular Function: protein binding; DNA binding; zinc ion binding; helicase activity; ATP binding Biological Process: RNA processing; nuclear mRNA splicing, via spliceosome; regulation of interferon type I production; apoptosis; multicellular organismal development; positive regulation of interferon type I production; innate immune response; positive regulation of transcription from RNA polymerase II promoter; defense response to virus
Research Articles on DDX41	**1.** Results show that the DDX41 DEAD domain recognizes both double-stranded DNA (dsDNA) and cyclic dinucleotides (CDN) at the same binding site. A structural comparison between the open and closed forms of the DDX41 DEAD domain revealed the structural rearrangement in the N-terminal region, which drastically changes the conformation of the ATP-binding site.
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