DDX20 Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	DDX20, Blocking Peptide
Full Product Name	DDX20 Antibody (C-term) Blocking Peptide
Product Gene Name	DDX20 blocking peptide
Product Synonym Gene Name	DP103; GEMIN3
Product Synonym Names	Probable ATP-dependent RNA helicase DDX20; Component of gems 3; DEAD box protein 20; DEAD box protein DP 103; Gemin-3; DDX20; DP103; GEMIN3
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 1 mg/ml.
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	DDX20 peptide (MBS9221187) is used for blocking the activity of DDX20 antibody (MBS9202754)
Molecular Weight	14,272 Da
OMIM	606168
Cellular Location	Cytoplasm. Nucleus, gem. Note: Localized in subnuclear structures next to coiled bodies, called Gemini of Cajal bodies (Gems)
Tissue Location	Ubiquitous.
Related Product Information for DDX20 blocking peptide	The SMN complex plays a catalyst role in the assembly of small nuclear ribonucleoproteins (snRNPs), the building blocks of the spliceosome. Thereby, plays an important role in the splicing of cellular pre-mRNAs. Most spliceosomal snRNPs contain a common set of Sm proteins SNRPB, SNRPD1, SNRPD2, SNRPD3, SNRPE, SNRPF and SNRPG that assemble in a heptameric protein ring on the Sm site of the small nuclear RNA to form the core snRNP. In the cytosol, the Sm proteins SNRPD1, SNRPD2, SNRPE, SNRPF and SNRPG are trapped in an inactive 6S pICln-Sm complex by the chaperone CLNS1A that controls the assembly of the core snRNP. Dissociation by the SMN complex of CLNS1A from the trapped Sm proteins and their transfer to an SMN-Sm complex triggers the assembly of core snRNPs and their transport to the nucleus. May also play a role in the metabolism of small nucleolar ribonucleoprotein (snoRNPs).
Other Notes	Small volumes of DDX20 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 DDX20 purchase	MBS9221187 is a blocking peptide targeting DDX20. Also known as DDX20 Antibody (C-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DDX20. It may not necessarily be applicable to this product.

NCBI GI #	12643886
NCBI GeneID	11218
NCBI Accession #	Q9UHI6.2
UniProt Primary Accession #	Q9UHI6
UniProt Secondary Accession #	Q96F72; Q9NVM3; Q9UF59; Q9UIY0; Q9Y659; B4DWV7
UniProt Related Accession #	Q9UHI6

NCBI Official Full Name	Probable ATP-dependent RNA helicase DDX20
NCBI Official Synonym Full Names	DEAD-box helicase 20
NCBI Official Symbol	DDX20
NCBI Official Synonym Symbols	DP103; GEMIN3
UniProt Protein Name	Probable ATP-dependent RNA helicase DDX20
UniProt Synonym Protein Names	Component of gems 3; DEAD box protein 20; DEAD box protein DP 103; Gemin-3
Protein Family	Probable ATP-dependent RNA helicase
UniProt Gene Name	DDX20
UniProt Synonym Gene Names	DP103; GEMIN3
UniProt Entry Name	DDX20_HUMAN
NCBI Protein Information	probable ATP-dependent RNA helicase DDX20
NCBI Summary for DDX20	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 this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a DEAD box protein, which has an ATPase activity and is a component of the survival of motor neurons (SMN) complex. This protein interacts directly with SMN, the spinal muscular atrophy gene product, and may play a catalytic role in the function of the SMN complex on RNPs. [provided by RefSeq, Jul 2008]
UniProt Comments for DDX20	GEMIN3: an ubiquitous DEAD box protein, which has an ATPase activity and is a component of the survival of motor neurons (SMN) complex. Interacts directly with SMN, the spinal muscular atrophy gene product, and may play a catalytic role in the function of the SMN complex on RNPs. DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp, 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. Protein type: Helicase; EC 3.6.4.13; RNA splicing; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 1p21.1-p13.2 Cellular Component: cytoplasm; cytoskeleton; cytosol; membrane; nucleoplasm; nucleus; SMN complex Molecular Function: ATP-dependent RNA helicase activity; protein binding Biological Process: assembly of spliceosomal tri-snRNP; negative regulation of transcription from RNA polymerase II promoter; nuclear import; positive regulation of apoptosis; RNA processing; RNA secondary structure unwinding; spliceosomal snRNP biogenesis
Research Articles on DDX20	**1.** In stage-adjusted analysis, the nominal associations of DDX20-rs197412, PTGS2-rs5275, and HSPA5-rs391957 with DFS were detected. However, after FDR correction none of these polymorphisms remained significantly associated with the survival outcomes
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