

DDX20 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP14870b**Specification**

DDX20 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q9UHI6](#)**DDX20 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 11218**Other 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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

DDX20 Antibody (C-term) Blocking Peptide - Protein Information**Name** DDX20**Synonyms** DP103, GEMIN3**Function**

The SMN complex catalyzes the assembly of small nuclear ribonucleoproteins (snRNPs), the building blocks of the spliceosome, and 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 (Sm core). 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. To assemble core snRNPs, the SMN complex accepts the trapped 5Sm proteins from CLNS1A forming an intermediate. Binding of snRNA inside 5Sm triggers eviction of the SMN complex, thereby allowing binding of SNRPD3 and SNRPB to complete assembly of the core snRNP. May also play a role in the metabolism of small nucleolar ribonucleoprotein (snoRNPs).

Cellular Location

Cytoplasm. Nucleus, gem Note=Localized in subnuclear structures next to coiled bodies, called Gemini or Cajal bodies (Gems).

Tissue Location

Ubiquitous.

DDX20 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

DDX20 Antibody (C-term) Blocking Peptide - Images**DDX20 Antibody (C-term) Blocking Peptide - Background**

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.

DDX20 Antibody (C-term) Blocking Peptide - References

Todd, A.G., et al. J. Mol. Biol. 401(5):681-689(2010) Sun, X., et al. Cell Stress Chaperones 15(5):567-582(2010) Wilker, E.H., et al. Environ. Health Perspect. 118(7):943-948(2010) Boni, V., et al. Pharmacogenomics J. (2010) In press :Ye, Y., et al. Cancer Prev Res (Phila) 1(6):460-469(2008)