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DDX23 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP4866c

Specification

DDX23 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q9BUQ8

DDX23 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 9416

Other Names
Probable ATP-dependent RNA helicase DDX23, 100 kDa U5 snRNP-specific protein, DEAD box protein 23, PRP28 homolog, U5-100kD, DDX23

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.

DDX23 Antibody (Center) Blocking Peptide - Protein Information

Name DDX23 (HGNC:17347)

Function
Involved in pre-mRNA splicing and its phosphorylated form (by SRPK2) is required for spliceosomal B complex formation (PubMed:18425142). Independently of its spliceosome formation function, required for the suppression of incorrect R-loops formed during transcription; R-loops are composed of a DNA:RNA hybrid and the associated non-template single-stranded DNA (PubMed:28076779).

Cellular Location
Nucleus. Chromosome. Note=During transcription, accumulates at chromatin loci where unscheduled R-loops form and colocalizes with paused 'Ser-5'-phosphorlyated POLR2A/RNA polymerase II and kinase SRPK2.

DDX23 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

DDX23 Antibody (Center) Blocking Peptide - Images

DDX23 Antibody (Center) Blocking Peptide - Background

DDX23 encodes a member of the DEAD box protein family. 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. The protein is a component of the U5 snRNP complex; it may facilitate conformational changes in the spliceosome during nuclear pre-mRNA splicing.

DDX23 Antibody (Center) Blocking Peptide - References

Mathew, R., et al. Nat. Struct. Mol. Biol. 15(5):435-443(2008)Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) Olsen, J.V., et al. Cell 127(3):635-648(2006)