

**DDX56 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17303b****Specification**

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**DDX56 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q9NY93](#)**DDX56 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 54606**Other Names**

Probable ATP-dependent RNA helicase DDX56, ATP-dependent 61 kDa nucleolar RNA helicase, DEAD box protein 21, DEAD box protein 56, DDX56, DDX21, NOH61

**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.

**DDX56 Antibody (C-term) Blocking Peptide - Protein Information****Name** DDX56**Synonyms** DDX21, NOH61**Function**

Nucleolar RNA helicase that plays a role in various biological processes including innate immunity, ribosome biogenesis or nucleolus organization (PubMed:<a href="http://www.uniprot.org/citations/31340999" target="\_blank">31340999</a>, PubMed:<a href="http://www.uniprot.org/citations/33789112" target="\_blank">33789112</a>). Plays an essential role in maintaining nucleolar integrity in planarian stem cells (PubMed:<a href="http://www.uniprot.org/citations/33789112" target="\_blank">33789112</a>). Maintains embryonic stem cells proliferation by conventional regulation of ribosome assembly and interaction with OCT4 and POU5F1 complex (By similarity). Regulates antiviral innate immunity by inhibiting the virus-triggered signaling nuclear translocation of IRF3 (PubMed:<a href="http://www.uniprot.org/citations/31340999" target="\_blank">31340999</a>). Mechanistically, acts by disrupting the interaction between IRF3 and importin IPO5 (PubMed:<a href="http://www.uniprot.org/citations/31340999" target="\_blank">31340999</a>). May play a role in later stages of the processing of the pre-ribosomal particles leading to mature 60S ribosomal subunits. Has intrinsic ATPase activity.

**Cellular Location**

Nucleus, nucleolus

**Tissue Location**

Detected in heart, brain, liver, pancreas, placenta and lung

**DDX56 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**DDX56 Antibody (C-term) Blocking Peptide - Images****DDX56 Antibody (C-term) Blocking Peptide - Background**

This gene 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 encoded by this gene shows ATPase activity in the presence of polynucleotides and associates with nucleoplasmic 65S preribosomal particles. This gene may be involved in ribosome synthesis, most likely during assembly of the large 60S ribosomal subunit.

**DDX56 Antibody (C-term) Blocking Peptide - References**

Matsuoka, S., et al. Science 316(5828):1160-1166(2007) Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :Andersen, J.S., et al. Nature 433(7021):77-83(2005) Lehner, B., et al. Genome Res. 14(7):1315-1323(2004) Scherl, A., et al. Mol. Biol. Cell 13(11):4100-4109(2002)