

DDX56 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55476**Specification**

DDX56 Polyclonal Antibody - Product Information

| | |
|----------------------------------|---|
| Application | IHC-P, IHC-F, IF, ICC, E |
| Primary Accession | Q9NY93 |
| Reactivity | Rat, Bovine |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 62 KDa |
| Physical State | Liquid |
| Immunogen | KLH conjugated synthetic peptide derived from human DDX56 |
| Epitope Specificity | 41-140/547 |
| Isotype | IgG |
| Purity | |
| affinity purified by Protein A | |
| Buffer | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| SUBCELLULAR LOCATION | Nucleus; nucleolus. |
| SIMILARITY | Belongs to the DEAD box helicase family. DDX56/DBP9 subfamily. Contains 1 helicase ATP-binding domain. Contains 1 helicase C-terminal domain. |
| Post-translational modifications | Phosphorylated upon DNA damage, probably by ATM or ATR. |
| Important Note | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |

Background Descriptions

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. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2012]

DDX56 Polyclonal Antibody - Additional Information**Gene ID** 54606**Other Names**

Probable ATP-dependent RNA helicase DDX56, 3.6.4.13, ATP-dependent 61 kDa nucleolar RNA helicase, DEAD box protein 21, DEAD box protein 56, DDX56, DDX21, NOH61

Target/Specificity

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

Dilution

IHC-P~~N/A
IHC-F~~N/A
IF~~1:50~200
ICC~~N/A
E~~N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

DDX56 Polyclonal Antibody - 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:[31340999](http://www.uniprot.org/citations/31340999), PubMed:[33789112](http://www.uniprot.org/citations/33789112)). Plays an essential role in maintaining nucleolar integrity in planarian stem cells (PubMed:[33789112](http://www.uniprot.org/citations/33789112)). 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:[31340999](http://www.uniprot.org/citations/31340999)). Mechanistically, acts by disrupting the interaction between IRF3 and importin IPO5 (PubMed:[31340999](http://www.uniprot.org/citations/31340999)). 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 Polyclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

DDX56 Polyclonal Antibody - Images