

Datasheet for ABIN7547051
DDX56 Protein (AA 1-547) (His tag)



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Overview

Quantity:	1 mg
Target:	DDX56
Protein Characteristics:	AA 1-547
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DDX56 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat DDX56 Protein expressed in mammalian cells.
Sequence:	<p>MEDSEALGFE HMGLDPRLLQ AVTDLGWSRP TLIQEKA IPL ALEKDLLAR ARTGSGKTAA YAIPMLQLLL HRKATGPVVE QAVRGLVLP TKELARQAQS MIQQLATYCA RDVRVANVSA AEDSVSQRVAV LMEKPDVVVG TSPRILSHLQ QDSLKLRDSL ELLVVDEADL LFSFGFEEEL KSL LCHLPRI YQAF LMSATF NEDVQALKEL ILHNPVTLKL QESQLPGPDQ LQQFQVVCET EEDKFLLLYA LLKLSLIRGK SLLFVNTLER SYRLRLFLEQ FSIPTCVLNG ELPLRSRCHI ISQFNQGFYD CVIATDAEVL GAPVKGKRRG RGPKGDKASD PEAGVARGID FHHVSAVLNF DLPPTPEAYI HRAGRTARAN NPGIVLTFVL PTEQFHLGKI EELLSGENRG PILLPYQFRM EEIEGFRYRC RDAMRSVTQK AIREARLKEI KEELLHSEKL KTYFEDNPRD LQLLRHDLPL HPAVVKPHLG HVPDYLPPA LRGLVRPHKK RKKLSSSCRK AKRAKSQNPL RSKFKHGKKF RPTAKPS Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag</p>

Product Details

necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

DDX56

Alternative Name:

DDX56 ([DDX56 Products](#))

Background:

Probable ATP-dependent RNA helicase DDX56 (EC 3.6.4.13) (ATP-dependent 61 kDa nucleolar RNA helicase) (DEAD box protein 21) (DEAD box protein 56),FUNCTION: Nucleolar RNA helicase that plays a role in various biological processes including innate immunity, ribosome biogenesis or nucleolus organization (PubMed:31340999, PubMed:33789112). Plays an essential role in maintaining nucleolar integrity in planarian stem cells (PubMed: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). Mechanistically, acts by disrupting the interaction between IRF3 and importin IPO5 (PubMed: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. {ECO:0000250|UniProtKB:Q9D0R4, ECO:0000269|PubMed:31340999,

Target Details

ECO:0000269|PubMed:33789112}, FUNCTION: (Microbial infection) Helicase activity is important for packaging viral RNA into virions during West Nile virus infection. {ECO:0000269|PubMed:22925334}, FUNCTION: (Microbial infection) Plays a positive role in foot-and-mouth disease virus replication by inhibiting the phosphorylation of IRF3 leading to inhibition of type I interferon. {ECO:0000269|PubMed:31445188}, FUNCTION: (Microbial infection) Plays a positive role in EMCV replication by interrupting IRF3 phosphorylation and its nucleus translocation. {ECO:0000269|PubMed:34922148}.

Molecular Weight: 61.6 kDa

UniProt: [Q9NY93](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months