

Datasheet for ABIN7563927

DDX5 Protein (AA 1-614) (His tag)



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Overview

Quantity:	1 mg
Target:	DDX5
Protein Characteristics:	AA 1-614
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DDX5 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Ddx5 Protein expressed in mammalien cells.
Sequence:	<p>MSSYSSDRDR GRDRGFGAPR FGSRTGPLS GKKFGNPGEK LVKKKWNLDE LPKFEKNFYQ</p> <p>EHPDLARRTA QEVDTYRRSK EITVRGHNCP KPVLFNFYEAN FPANVMDVIA RQNFTEPTAI</p> <p>QAQGWPVALS GLDMVGVAQT GSGKTLGYLL PAIVHINHQP FLERGDGPIC LVLAPTRELA</p> <p>QQVQQVAAEY CRACRLKSTC IYGGAPKGPQ IRDLERGVEI CIATPGRLLD FLECGKTNLR</p> <p>RTTYLVLDEA DRMLDMGFEP QIRKIVDQIR PDRQTLMWSA TWPKEVRQLA EDFLKDYIHI</p> <p>NIGALELSAN HNLIQIVDVC HDVEKDEKLI RLMEEIMSEK ENKTIVFVET KRRCDELTRK</p> <p>MRRDGWPAMG IHGDKSQQER DWVLNEFKHG KAPILIATDV ASRGLDVEDV KVVINYDYPN</p> <p>SSEDIYHRIG RTARSTKTGT AYTFFTPNNI KQVSDLISVL REANQAINPK LLQLVEDRGS</p> <p>GRSRGRGGMK DDDRDRYSAG KRGGFNTFRD RENYDRGYSN LLKRDFGAKT QNGVYSAANY</p> <p>TNGSFSGSNFV SAGIQTSFRT GNPTGTQYQNG YDSTQQYGSN VANMHNGMNQ QAYAYPLPQA</p> <p>APMIGYPMPT GYSQ Sequence without tag. The proposed Purification-Tag is based on</p>

experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	DDX5
Alternative Name:	Ddx5 (DDX5 Products)
Background:	<p>Probable ATP-dependent RNA helicase DDX5 (EC 3.6.4.13) (DEAD box RNA helicase DEAD1) (mDEAD1) (DEAD box protein 5) (RNA helicase p68),FUNCTION: Involved in the alternative regulation of pre-mRNA splicing, its RNA helicase activity is necessary for increasing tau exon 10 inclusion and occurs in a RBM4-dependent manner. Binds to the tau pre-mRNA in the stem-loop region downstream of exon 10. The rate of ATP hydrolysis is highly stimulated by single-stranded RNA. Involved in transcriptional regulation, the function is independent of the RNA helicase activity. Transcriptional coactivator for androgen receptor AR but probably not ESR1. Synergizes with DDX17 and SRA1 RNA to activate MYOD1 transcriptional activity and involved in skeletal muscle differentiation. Transcriptional coactivator for p53/TP53 and involved in p53/TP53 transcriptional response to DNA damage and p53/TP53-dependent apoptosis. Transcriptional coactivator for RUNX2 and involved in regulation of osteoblast differentiation.</p>

Target Details

Acts as a transcriptional repressor in a promoter-specific manner, the function probably involves association with histone deacetylases, such as HDAC1. As component of a large PER complex is involved in the inhibition of 3' transcriptional termination of circadian target genes such as PER1 and NR1D1 and the control of the circadian rhythms.

{ECO:0000269|PubMed:17011493, ECO:0000269|PubMed:17960593, ECO:0000269|PubMed:22767893}.

Molecular Weight: 69.3 kDa

UniProt: [Q61656](#)

Pathways: [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Regulation of Intracellular Steroid Hormone Receptor Signaling](#), [Nuclear Hormone Receptor Binding](#), [Regulation of Muscle Cell Differentiation](#), [Positive Regulation of Response to DNA Damage Stimulus](#)

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