OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-888-267-4436
Fax: +1-301-340-8606
techsupport@origene.com

OriGene Technologies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info-de@origene.com

AR51182PU-N Human DDX56 (1-547, His-tag) - Purified

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

Quantity: 0.5 mg

Concentration: 1.0 mg/ml (determined by Bradford assay)

Background: DDX56 is 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. DDX56 shows ATPase activity in the presence of polynucleotides and associates with nucleoplasmic 65S preribosomal particles.

Uniprot ID: Q9NY93

NCBI: NP_061955

GeneID: 54606

Species: Human

Source: E. coli

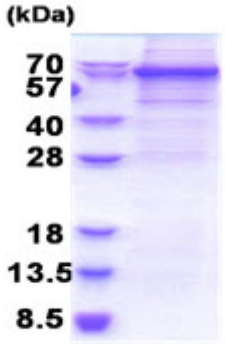
Format:
State: Liquid purified protein
Purity: >85% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M urea

Description: Recombinant human DDX56 protein, fused to His-tag at N-terminus, was expressed in E.coli.
AA Sequence:
MGSSHHHHHH SSGLVPRGSH MGSMEDSEAL GFEHMGLDPR LLQAVTDLGW SRPTLIQEKA
IPLALEGKDL LARARTGSGK TAAYAIPMLQ LLLHRKATGP VVEQAVRGLV LVPTKELARQ
AQSMIQQLAT YCARDVRVAN VSAAEDSVSQ RAVLMEKPDV VVGTPSRILS HLQQDSLKLR
DSLELLVVDE ADLLFSFGFE EELKSLLCHL PRIYQAFLMS ATFNEDVQAL KELILHNPVT
LKLQESQLPG PDQLQQFQVV CETEEDKFLL LYALLKLSLI RGKSLLFVNT LERSYRLRLF
LEQFSIPTCV LNGELPLRSR CHIISQFNQG FYDCVIATDA EVLGAPVKGK RRGRGPKGDK
ASDPEAGVAR GIDFHHVSAV LNFDLPPTPE AYIHRAGRTA RANNPGIVLT FVLPTEQFHL
GKIEELLSGE NRGPILLPYQ FRMEEIEGFR YRCRDAMRSV TKQAIREARL KEIKEELLHS
EKLKTYFEDN PRDLQLLRHD LPLHPAVVKP HLGHVPDYLV PPALRGLVRP HKKRKKLSSS
CRKAKRAKSQ NPLRSFKHKG KKFRPTAKPS
Molecular weight: 64.0 kDa (570aa)

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings: Matsuoka S., et al (2007). Science 316:1160-1166

Pictures:



15% SDS-PAGE (3ug)