

Product datasheet

Recombinant Human RRP41 protein (denatured)
 ab176048

1 Image

Description

Product name	Recombinant Human RRP41 protein (denatured)
Purity	> 85 % SDS-PAGE.
Expression system	Escherichia coli
Accession	Q9NPD3
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<pre> MGSSHHHHHH SSGLVPRGSH MGSMAGLELL SDQGYRVDGR RAGELRKIQA RMGVFAQADG SAYIEQGNTK ALAVVYGPHE IRGSRARALP DRALVNCQYS SATFSTGERK RRPHGDRKSC EMGLQLRQTF EAAILTQLHP RSQIDIVQV LQADGGTYAA CVNAATLAVL DAGIPMRDFV CACSAGFVDG TALADLSHVE EAAGGPQLAL ALLPASGQIA LLEMDARLHE DHLERVLEAA AQAARDVHTL LDRVVRQHVR EASILLGD </pre>
Predicted molecular weight	29 kDa including tags
Amino acids	1 to 245
Tags	His tag N-Terminus
Additional sequence information	(NP_061910).

Specifications

Our [Abpromise guarantee](#) covers the use of **ab176048** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid
Additional notes	Protein previously labeled as EXOSC4.

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 0.32% Tris-HCl buffer, 10% Glycerol (glycerin, glycerine), 2.4% Urea

General Info

Function

Non-catalytic component of the RNA exosome complex which has 3'→5' exoribonuclease activity and participates in a multitude of cellular RNA processing and degradation events. In the nucleus, the RNA exosome complex is involved in proper maturation of stable RNA species such as rRNA, snRNA and snoRNA, in the elimination of RNA processing by-products and non-coding 'pervasive' transcripts, such as antisense RNA species and promoter-upstream transcripts (PROMPTs), and of mRNAs with processing defects, thereby limiting or excluding their export to the cytoplasm. The RNA exosome may be involved in Ig class switch recombination (CSR) and/or Ig variable region somatic hypermutation (SHM) by targeting AICDA deamination activity to transcribed dsDNA substrates. In the cytoplasm, the RNA exosome complex is involved in general mRNA turnover and specifically degrades inherently unstable mRNAs containing AU-rich elements (AREs) within their 3' untranslated regions, and in RNA surveillance pathways, preventing translation of aberrant mRNAs. It seems to be involved in degradation of histone mRNA. The catalytic inactive RNA exosome core complex of 9 subunits (Exo-9) is proposed to play a pivotal role in the binding and presentation of RNA for ribonucleolysis, and to serve as a scaffold for the association with catalytic subunits and accessory proteins or complexes. EXOSC4 binds to ARE-containing RNAs.

Sequence similarities

Belongs to the RNase PH family.

Cellular localization

Cytoplasm. Nucleus, nucleolus. Nucleus.

Images



15% SDS-PAGE analysis of ab176048 (3µg).

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