

Product datasheet

Recombinant Human CPSF73 protein ab153359

1 Image

Description

Product name	Recombinant Human CPSF73 protein
Expression system	Wheat germ
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human

Sequence	MSAIPAEESDQLLIRPLGAGQEVRSCIIIEFKGRKIML DCGIHPGLEGM DALPYIDLIDPAEIDLLISHFHLDHCGALPWFLQKTSFK GRTFMTHATK AYRWLLSDYVKVSNISADDMLYTETDLEESMDKIETINF HEVKEVAGIK FWCYHAGHVLGAAMFMIEIAGVKLLYTGFDSRQEDRH LMAAEIPNIKPDI LIIESTYGTTHIHEKREEREARFCNTVHDIVNRGGRGLIPV FALGRAQELL LILDEYWQNHPELHDIPYYASSLAKKCMVYQTYVNAM NDKIRKQININ NPFVFKHISNLKSMDFDDIGPSVVMASPGMMQSGLS RELFESWCTDKRN GVIIAGYCV EGT LAKHIMSEPEEITMSGQKLPLKMSVD YISFSAHTDYQ QTSEFIRALKPPHVILVHGEQNEARLKAALIREYEDND EVHIEVHNPRN TEAVTLNFRGEKLAKVMGFLADKKPEQGQRVSGILVK RNFNYHILSPCDL SNYTDLAMSTVKQTQAIPYTGFNLLCYQLQKLTGDVE ELEIQEKPAKLV FKNITVIQEPGMVVLEWLANPSNDMYADTVTTVILEVQ SNPKIRKGAVQK VSKKLEMHVYSKRLEIMLQDIFGEDCVSVKDDSIKSVT VDGKTANLNLET RTVECEESEDDDESLREMV ELAAQRLYEALTPVH
-----------------	---

Amino acids 1 to 684

Tags GST tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab153359** in the following tested applications.

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

Applications	ELISA Western blot
Form	Liquid
Additional notes	Protein concentration is above or equal to 0.05 mg/ml.

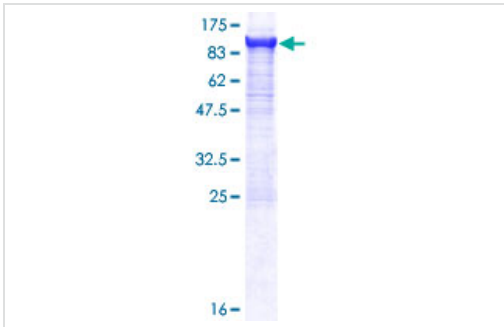
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
------------------------------	--

General Info

Function	Component of the cleavage and polyadenylation specificity factor (CPSF) complex that play a key role in pre-mRNA 3'-end formation, recognizing the AAUAAA signal sequence and interacting with poly(A) polymerase and other factors to bring about cleavage and poly(A) addition. Has endonuclease activity, and functions as mRNA 3'-end-processing endonuclease. Also involved in the histone 3'-end pre-mRNA processing. U7 snRNP-dependent protein that induces both the 3'-endoribonucleolytic cleavage of histone pre-mRNAs and acts as a 5' to 3' exonuclease for degrading the subsequent downstream cleavage product (DCP) of mature histone mRNAs. Cleavage occurs after the 5'-ACCCA-3' sequence in the histone pre-mRNA leaving a 3'hydroxyl group on the upstream fragment containing the stem loop (SL) and 5' phosphate on the downstream cleavage product (DCP) starting with CU nucleotides. The U7-dependent 5' to 3' exonuclease activity is processive and degrades the DCP RNA substrate even after complete removal of the U7-binding site. Binds to the downstream cleavage product (DCP) of histone pre-mRNAs and the cleaved DCP RNA substrate in a U7 snRNP dependent manner.
Sequence similarities	Belongs to the metallo-beta-lactamase superfamily. RNA-metabolizing metallo-beta-lactamase-like family. CPSF3 subfamily.
Post-translational modifications	Sumoylated on Lys-462, Lys-465 and Lys-545, preferentially by SUMO3.
Cellular localization	Nucleus.

Images



ab153359 on a 12.5% SDS-PAGE stained with Coomassie Blue.

SDS-PAGE - Recombinant Human CPSF73 protein
(ab153359)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors