abcam

Product datasheet

Recombinant Human hnRNP D/AUF1 protein ab152450

1 Image

Description

Product name	Recombinant Human hnRNP D/AUF1 protein
Expression system	Wheat germ
Accession	Q14103
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MSEEQFGGDGAAAAATAAVGGSAGEQEGAMVAATQGA AAAAGSGAGTGGG TASGGTEGGSAESEGAKIDASKNEEDEGHSNSSPRHSEA ATAQREEWKMF IGGLSWDTTKKDLKDYFSKFGEVVDCTLKLDPITGRSRGF GFVLFKESES VDKVMDQKEHKLNGKVIDPKRAKAMKTKEPVKKIFVGGL SPDTPEEKIRE YFGGFGEVESIELPMDNKTNKRRGFCFITFKEEEPVKKIME KKYHNVGLS KCEIKVAMSKEQYQQQQQWGSRGGFAGRARGRGGGPS QNWNQGYSNYWNQ GYGNYGYNSQGYGGYGGYDYTGYNNYYGYGDYSNQQSGY GKVSRRGGHQN SYKPY
Predicted molecular weight	65 kDa including tags
Amino acids	1 to 355
Tags	GST tag N-Terminus

Specifications

Our Abpromise guarantee covers the use of **ab152450** 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
	Western blot
	ELISA

Form	Liquid
Additional notes	

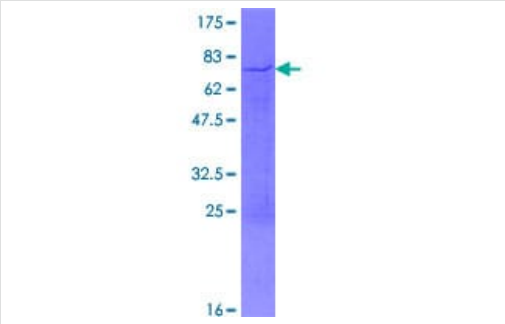
Preparation and Storage

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

General Info

Function	Binds with high affinity to RNA molecules that contain AU-rich elements (AREs) found within the 3'-UTR of many proto-oncogenes and cytokine mRNAs. Also binds to double- and single-stranded DNA sequences in a specific manner and functions a transcription factor. Each of the RNA-binding domains specifically can bind solely to a single-stranded non-monotonous 5'-UUAG-3' sequence and also weaker to the single-stranded 5'-TTAGGG-3' telomeric DNA repeat. Binds RNA oligonucleotides with 5'-UUAGGG-3' repeats more tightly than the telomeric single-stranded DNA 5'-TTAGGG-3' repeats. Binding of RRM1 to DNA inhibits the formation of DNA quadruplex structure which may play a role in telomere elongation. May be involved in translationally coupled mRNA turnover. Implicated with other RNA-binding proteins in the cytoplasmic deadenylation/translational and decay interplay of the FOS mRNA mediated by the major coding-region determinant of instability (mCRD) domain.
Sequence similarities	Contains 2 RRM (RNA recognition motif) domains.
Post-translational modifications	Arg-345 is dimethylated, probably to asymmetric dimethylarginine. Methylated by PRMT1, in an insulin-dependent manner. The PRMT1-mediated methylation regulates tyrosine phosphorylation.
Cellular localization	Nucleus. Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Component of ribonucleosomes.

Images



SDS-PAGE - Recombinant Human hnRNP D/AUF1 protein (ab152450)

12.5% SDS-PAGE gel analysis of ab152450 stained with Coomassie Blue

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- 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

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