

Recombinant Human hnRNP C1/C2 protein ab104668

1 Image

Description

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| Product name | Recombinant Human hnRNP C1/C2 protein |
| Purity | > 85 % SDS-PAGE. ab104668 is purified by using anion-exchange chromatography (DEAE sepharose resin) and gel-filtration chromatography (Sephacryl S-200) with 20mM Tris pH 7.5, 2mM EDTA. |
| Expression system | Escherichia coli |
| Accession | P07910 |
| Protein length | Full length protein |
| Animal free | No |
| Nature | Recombinant |
| Species | Human |
| Sequence | MGSSHHHHHHSSGLVPRGSH MASNVTNKTDPRSMNSR VFIGNLNTLVVKK SDVEAIFSKYGKIVGCSVHKGFVQYVNERNARA AVAGE DGRMIAGQVL DINLAAEPKVN RGKAGVKRSAAEMYGSSFDLDYDFQRDY YDRMYSYPARV PPPPPIARAVVPSKRQRVSGNTSRRGKSGFNSKSGQRGS SKSGKLKGDDL QAIKKELTQIKQKVDSLLENLEKIEKEQSKQAVEMKNDKS EEEQSSSSVK KDETNVKMESEGGADDSAEEGDLLDDDDNEDRGDDQL ELIKDDEKEAEEG EDDRDSANGEDDS |
| Predicted molecular weight | 35 kDa including tags |
| Amino acids | 1 to 293 |
| Tags | His tag N-Terminus |
| Description | Recombinant Human hnRNP C1 + C2/HNRNPC protein |

Specifications

Our **Abpromise guarantee** covers the use of **ab104668** in the following tested applications.

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

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| Applications | SDS-PAGE |
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| | Mass Spectrometry |
| Mass spectrometry | MALDI-TOF |
| Form | Liquid |
| Additional notes | This product was previously labelled as hnRNP C1 + C2 |

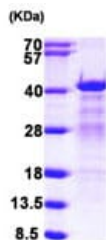
Preparation and Storage

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|------------------------------|---|
| Stability and Storage | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. pH: 8.00 Constituents: 0.077% DTT, 0.316% Tris HCl, 30% Glycerol (glycerin, glycerine), 1.16% Sodium chloride |
|------------------------------|---|

General Info

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| Function | Binds pre-mRNA and nucleates the assembly of 40S hnRNP particles (PubMed:8264621). Specifically recognizes and binds N6-methyladenosine (m6A)-containing RNAs, a modification present at internal sites of mRNAs that affects mRNA splicing, processing and stability. M6A alters the local structure in mRNAs and long non-coding RNAs (lncRNAs) via a mechanism named 'm(6)A-switch' to facilitate binding of HNRNPC, leading to regulation of mRNA splicing (PubMed:25719671). Single HNRNPC tetramers bind 230-240 nucleotides. Trimers of HNRNPC tetramers bind 700 nucleotides. May play a role in the early steps of spliceosome assembly and pre-mRNA splicing. Interacts with poly-U tracts in the 3'-UTR or 5'-UTR of mRNA and modulates the stability and the level of translation of bound mRNA molecules (PubMed:12509468, PubMed:16010978, PubMed:7567451, PubMed:8264621). |
| Sequence similarities | Belongs to the RRM HNRPC family. RALY subfamily. Contains 1 RRM (RNA recognition motif) domain. |
| Post-translational modifications | Phosphorylated on Ser-260 and Ser-299 in resting cells. Phosphorylated on Ser-253 and on 1 serine residue in the poly-Ser stretch at position 238 in response to hydrogen peroxide. Sumoylated. Sumoylation reduces affinity for mRNA. |
| Cellular localization | Nucleus. Component of ribonucleosomes. |

Images



SDS-PAGE - Recombinant Human hnRNP C1/C2 protein (ab104668)

15% SDS-PAGE showing ab104668 at approximately 34.5kDa (3µg).

Note: Real molecular weight on SDS-PAGE is shifted up compared to predicted molecular weight.

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

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