

Product datasheet

Recombinant Human hnRNP C1 + C2/HNRNPC protein
ab104668

1 Image

Description

Product name	Recombinant Human hnRNP C1 + C2/HNRNPC 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	MGSSHHHHHSSGLVPRGSHMASNVTNKTDPRSMNSR VFIGNLNTLVVKK SDVEAIFSKYGKIVGCSVHKGFVQVYVNERNARA AVAGE DGRMIAGQVL DINLAAEPKVN RGKAGVKRSAAEMYGSSFDLDYDFQRDY YDRMYSYPARV PPPPPIARAVVPSKRQRVSGNTSRRGKSGFNSKSGQRGS SKSGKLGDDL QAIKKELTQIKQKVDSLLENLEKIEKEQSKQAVEMKNDKS EEEQSSSSVK KDETNVKMESEGGADDSAEEGDLLDDDDNEDRGDDQL ELIKDDEKEAEEG EDDRDSANGEDDS
Predicted molecular weight	35 kDa including tags
Amino acids	1 to 293
Tags	His tag N-Terminus

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.

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

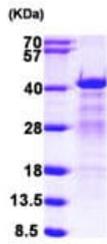
Preparation and Storage

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
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General Info

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/HNRNPC protein (ab104668)

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

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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