

Product datasheet

Recombinant Human hnRNP C1 + C2 protein ab104668

1 图像

概述

| | |
|------|---------------------|
| 产品名称 | 重组人hnRNP C1 + C2蛋白 |
| 蛋白长度 | Full length protein |

描述

| | |
|----|------------------|
| 性质 | Recombinant |
| 来源 | Escherichia coli |

氨基酸序列

Accession [P07910](#)

种属 Human

序列 **MGSSHHHHHSSGLVPRGSHMASNVTNKTDPRSMNSRVFIGNLNTLVVKK**
 SDVEAIFSKYGKIVGCSVHKGFVQYVNERNARA AVAGEDGRMIAGQVL
 DINLAAEPKVN RGKAGVKRSAAEMYGSSFDLDYDFQRDYYDRMYSYPARV
 PPPPIARAVVPSKRQRVSGNTSRRGKSGFNSKSGQRGSSKSGKLGDDL
 QAIKKELTQIKQKVD S LLENLEKIEKEQSKQAVEMKNDKSEEEQSSSVK
 KDETNVKMESEGGADDSAEEGDLLDDDDNEDRGDDQLELIKDDEKEAEEG
 EDDRDSANGEDDS

分子量 35 kDa including tags

氨基酸 1 to 293

标签 His tag N-Terminus

技术指标

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.

| | |
|----|-------------------|
| 应用 | SDS-PAGE |
| | Mass Spectrometry |

质谱法 MALDI-TOF

纯度 > 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.

形式 Liquid

制备和贮存

稳定性和存储

Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Preservative: None

Constituents: 30% Glycerol, 0.2M Sodium chloride, 5mM DTT, 20mM Tris HCl, pH 8.0

常规信息

功能

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).

序列相似性

Belongs to the RRM HNRPC family. RALY subfamily.

Contains 1 RRM (RNA recognition motif) domain.

翻译后修饰

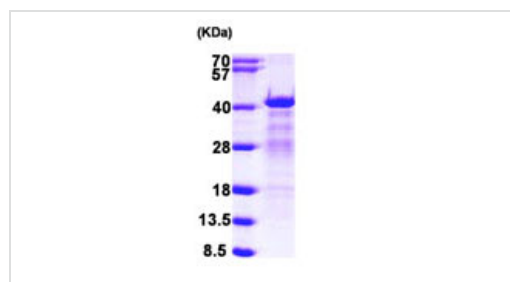
Phosphorylated on Ser-260 and Ser-299 in resting cells. Phosphorylated on Ser-253 and on 1 serine residue in the poly-Ser stretch at position 238 in response to hydrogen peroxide.

Sumoylated. Sumoylation reduces affinity for mRNA.

细胞定位

Nucleus. Component of ribonucleosomes.

图片



SDS-PAGE - 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.

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