

Product datasheet

Recombinant Human eIF4A3 protein ab123151

1 图像

概述

产品名称	重组人eIF4A3蛋白
蛋白长度	Full length protein

描述

性质	Recombinant
来源	Escherichia coli

氨基酸序列

Accession [P38919](#)

种属 Human

序列 MGSSHHHHHH SGLVPRGSH MGSMMATTAT
 MATSGSARKR LLKEEDMTKV EFETSEEVDV
 TPTFDTMGLR EDLLRGIYAY GFEEKPSAIQQ
 RAIKQIIKGR DVIAQSQSGT GKTATFSISV
 LQCLDIQVRE TQALILAPTR ELAVQIQKGL
 LALGDYMNQV CHACIGGTNV GEDIRKLDYG
 QHVVAGTPGR VFDMIRRRSL RTRAIKMLVL
 DEADEMLNKG FKEQIYDVYR YLPPATQVVL
 ISATLPHEIL EMTNKFMTDP IRILVKRDEL
 TLEGIKQFFV AVEREEWKFD TLCDLYDTLT
 ITQAVIFCNT KRKVDWLTEK MREANFTVSS
 MHGDMPQKER ESIMKEFRSG ASRVLISTDV
 WARGLDVPQV SLIINYDLPN NRELYIHRIG
 RSGRYGRKGV AINFVKNDI RILRDIEQYY
 STQIDEMPMN VADLI

分子量 49 kDa including tags

氨基酸 1 to 411

标签 His tag N-Terminus

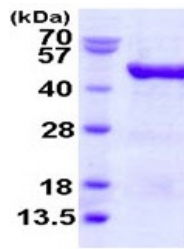
技术指标

Our [Abpromise guarantee](#) covers the use of **ab123151** in the following tested applications.

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

应用	Mass Spectrometry SDS-PAGE
质谱法	MALDI-TOF
纯度	> 95 % SDS-PAGE. ab123151 is purified using conventional chromatography techniques.
形式	Liquid
制备和贮存	
稳定性和存储	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.03% DTT, 0.32% Tris HCl, 30% Glycerol, 1.17% Sodium chloride
常规信息	
功能	ATP-dependent RNA helicase. Component of a splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junction on mRNAs. The EJC is a dynamic structure consisting of a few core proteins and several more peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. Core components of the EJC, that remains bound to spliced mRNAs throughout all stages of mRNA metabolism, functions to mark the position of the exon-exon junction in the mature mRNA and thereby influences downstream processes of gene expression including mRNA splicing, nuclear mRNA export, subcellular mRNA localization, translation efficiency and nonsense-mediated mRNA decay (NMD). Constitutes at least part of the platform anchoring other EJC proteins to spliced mRNAs. Its RNA-dependent ATPase and RNA-helicase activities are induced by CASC3, but abolished in presence of the MAGOH/RBM8A heterodimer, thereby trapping the ATP-bound EJC core onto spliced mRNA in a stable conformation. The inhibition of ATPase activity by the MAGOH/RBM8A heterodimer increases the RNA-binding affinity of the EJC. Involved in translational enhancement of spliced mRNAs after formation of the 80S ribosome complex. Binds spliced mRNA in sequence-independent manner, 20-24 nucleotides upstream of mRNA exon-exon junctions. Shows higher affinity for single-stranded RNA in an ATP-bound core EJC complex than after the ATP is hydrolyzed.
组织特异性	Ubiquitously expressed.
序列相似性	Belongs to the DEAD box helicase family. eIF4A subfamily. Contains 1 helicase ATP-binding domain. Contains 1 helicase C-terminal domain.
细胞定位	Nucleus. Nucleus speckle. Cytoplasm. Nucleocytoplasmic shuttling protein. Travels to the cytoplasm as part of the exon junction complex (EJC) bound to mRNA. Detected in dendritic layer as well as the nuclear and cytoplasmic (somatic) compartments of neurons. Colocalizes with STAU1 and FMR1 in dendrites.

图片



15% SDS-PAGE showing ab123151 at approximately 49.4kDa (3 μ g).

SDS-PAGE - eIF4A3 protein (ab123151)

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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