

Product datasheet

Recombinant Human NCBP1 protein ab114736

1 Image

Overview

<b>Product name</b>	Recombinant Human NCBP1 protein
<b>Protein length</b>	Full length protein

Description

<b>Nature</b>	Recombinant
<b>Source</b>	Wheat germ
<b>Amino Acid Sequence</b>	
<b>Accession</b>	<a href="#">Q09161</a>
<b>Species</b>	Human
<b>Sequence</b>	MSRRRHSDENDGGQPHKRRKTSANETEDHLES LICKVGEKSACSLESNL EGLAGVLEADLPNYKSKILRLLCTVARLLPEKLTYYTTLVGLLNARNYNF GGEFVEAMIRQLKESLKANNYNEAVYLVRFLSDLVNCHVIAAPSMVAMFE NFVSVTQEEDVPQVRRDWYVYAFSSLPWVGKELYEKKDAEMDRIFANTE SYLKRRQKTHVPMLQVWTADKPHPQEEYLDCLWAQIQKLLKDRWQERHIL RPLYAFDSILCEALQHNLPPFTPPPHTEDSVYPMPRVIFRMFDYTDDPEG PVMPGSHSVERFVIEENLHCIIKSHWKERKTCAAQLVSYPGKNKIPLNYH MEVIFAELFQLPAPPHIDVMYTTLLIELCKLQPGSLPQVLAQATEMLYM RLDTMNTTCVDRFINWFSHLSNFQFRWSWEDWSDCLSQDPESPKPKFVR EVLEKCMRLSYHQRILDIVPPTFSALCPANPTCIYKYGDESSNSLPGHSV ALCLAVAFKSKATNDEIFSILKDVPNPQDDDDDEGFSFNPLKIEVFVQT LLHLAAKSFSHSFSALAKFHEVFKTLAESDEGKLHVLRVMFEVWRNHPQM IAVLVDKMIRTOVDCAAVANWIFSSSELSRDFTRLFVWEILHSTIRKMNK HVLKIQKELEEAKEKLARQHKRRSDDDDRRSDRKDGVLEEQIERLQEKVE SAQSEQKNLFLVIFQRFIMILTEHLVRCETDGTSLVTPWYKNCIERLQOI FLQHHQIQQYMTLENLLFTAELDPHILAVFQQFCALQA
<b>Molecular weight</b>	113 kDa including tags
<b>Amino acids</b>	1 to 790

Specifications

Our [Abpromise guarantee](#) covers the use of **ab114736** in the following tested applications.

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

<b>Applications</b>	ELISA
	SDS-PAGE

Western blot

**Form**

Liquid

**Additional notes**

Protein concentration is above or equal to 0.05 mg/ml.  
Best used within three months from the date of receipt.

**Preparation and Storage**

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**Stability and Storage**

Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 8.00

Constituents: 0.3% Glutathione, 0.79% Tris HCl

**General Info**

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**Function**

Component of the cap-binding complex (CBC), which binds co-transcriptionally to the 5' cap of pre-mRNAs and is involved in various processes such as pre-mRNA splicing, translation regulation, nonsense-mediated mRNA decay, RNA-mediated gene silencing (RNAi) by microRNAs (miRNAs) and mRNA export. The CBC complex is involved in mRNA export from the nucleus via its interaction with THOC4/ALY, leading to the recruitment of the mRNA export machinery to the 5' end of mRNA and to mRNA export in a 5' to 3' direction through the nuclear pore. The CBC complex is also involved in mediating U snRNA and intronless mRNAs export from the nucleus. The CBC complex is essential for a pioneer round of mRNA translation, before steady state translation when the CBC complex is replaced by cytoplasmic cap-binding protein eIF4E. The pioneer round of mRNA translation mediated by the CBC complex plays a central role in nonsense-mediated mRNA decay (NMD), NMD only taking place in mRNAs bound to the CBC complex, but not on eIF4E-bound mRNAs. The CBC complex enhances NMD in mRNAs containing at least one exon-junction complex (EJC) via its interaction with UPF1, promoting the interaction between UPF1 and UPF2. The CBC complex is also involved in 'failsafe' NMD, which is independent of the EJC complex, while it does not participate in Staufen-mediated mRNA decay (SMD). During cell proliferation, the CBC complex is also involved in microRNAs (miRNAs) biogenesis via its interaction with SRRT/ARS2 and is required for miRNA-mediated RNA interference. The CBC complex also acts as a negative regulator of PARN, thereby acting as an inhibitor of mRNA deadenylation. In the CBC complex, NCBP1/CBP80 does not bind directly capped RNAs (m7GpppG-capped RNA) but is required to stabilize the movement of the N-terminal loop of NCBP2/CBP20 and lock the CBC into a high affinity cap-binding state with the cap structure.

**Sequence similarities**

Belongs to the NCBP1 family.  
Contains 1 MIF4G domain.

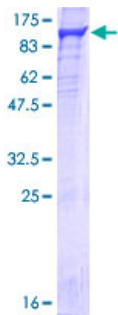
**Cellular localization**

Nucleus. Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

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**Recombinant Human NCBP1 protein images**

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12.5% SDS-PAGE showing ab114736 at approximately 112.97kDa. Stained with Coomassie Blue.

SDS-PAGE - NCBP1 protein (ab114736)

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

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