

Product datasheet

Recombinant Human NXF1 protein ab153087

1 Image

Description

<b>Product name</b>	Recombinant Human NXF1 protein
<b>Expression system</b>	Wheat germ
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human

<b>Sequence</b>	<p>MADEGKSYSEHDDERVNFPQRKKKGRGPFRWKYGE  GNRRSGRGGSGIRSS  RLEEDDGDVAMSDAQDGPRVRYNPYTTRPNRRGDTW  HDRDRIHVTVRRDR  APPERGGAGTSQDGTSKNWFKITIPYGRKYDKAWLLS  MIQSKCSVPFTPI  EFHYENTRAQFFVEDASTASALKAVNYKILDRENRRISIII  NSSAPPHTI  LNELKPEQVEQLKLIMSKRYDGSQQALDLKGLRSDPD  LVAQNIDVVLNRR  SCMAATLRIIEENIPELLSLNLSNNRLYRLDDMSSIVQKA  PNLKILNLSG  NELKSERELDKIKGLKLEELWLDGNSLCDTFRDQSTYI  SAIRERFPKLLR  LDGHELPPPIAFDVEAPTTLPPCKGSYFGTENLKSLLV  HFLQQYYAYDS  GDRQGLLDAYHDGACCSLSIPFIPQNPARS SLAEYFKD  SRNVKCLKDPTL  RFRLKHLNVAFLNELPKTQHDVNSFVVDISAQTS  TLLCFSVNGVFK  EVDGKSRDSLRAFTRTFIAPASNSGLCMNDEL FVRN  ASSEIQRAFAM  PAPTPSSSPVPTLSPEQQEMLQAFSTQSGMNLEWSQ  KCLQDNNWDYTRSA QAFTHLKAKGEIPEVAFMK</p>
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<b>Amino acids</b>	1 to 619
<b>Tags</b>	GST tag N-Terminus

Specifications

## Specifications

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Our [Abpromise guarantee](#) covers the use of **ab153087** 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 Western blot
<b>Form</b>	Liquid
<b>Additional notes</b>	Protein concentration is above or equal to 0.05 mg/ml.

## Preparation and Storage

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<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
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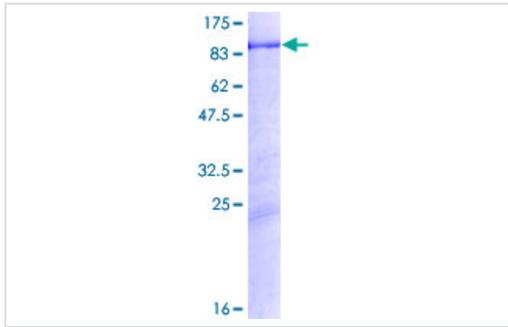
## General Info

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<b>Function</b>	Involved in the nuclear export of mRNA species bearing retroviral constitutive transport elements (CTE) and in the export of mRNA from the nucleus to the cytoplasm. The NXF1-NXT1 heterodimer is involved in the export of HSP70 mRNA in conjunction with THOC4 and THOC5.
<b>Tissue specificity</b>	Expressed ubiquitously.
<b>Sequence similarities</b>	Belongs to the NXF family. Contains 4 LRR (leucine-rich) repeats. Contains 1 NTF2 domain. Contains 1 RRM (RNA recognition motif) domain. Contains 1 TAP-C domain.
<b>Domain</b>	<p>The minimal CTE binding domain consists of an RNP-type RNA binding domain (RBD) and leucine-rich repeats.</p> <p>The nucleoporin binding domain consists of a NTF2 domain (also called NTF2-like domain) and a TAP-C domain (also called UBA-like domain). It has 2 nucleoporin-FG-repeats binding sites (one in the NTF2 and the other in the TAP-C domain) which contribute to nucleoporin association and act synergistically to export cellular mRNAs.</p> <p>The NTF2 domain is functional only in the presence of NXT1 and is essential for the export of mRNA from the nucleus.</p> <p>The TAP-C domain mediates direct interactions with nucleoporin-FG-repeats and is necessary and sufficient for localization of NXF1 to the nuclear rim. The conserved loop 594-NWD-596 of the TAP-C domain has a critical role in the interaction with nucleoporins.</p> <p>The leucine-rich repeats are essential for the export of mRNA from the nucleus.</p> <p>The RNA-binding domain is a non-canonical RNP-type domain.</p>
<b>Cellular localization</b>	Nucleus > nucleoplasm. Nucleus speckle. Cytoplasm. Localized predominantly in the nucleoplasm and at both the nucleoplasmic and cytoplasmic faces of the nuclear pore complex. Shuttles between the nucleus and the cytoplasm. Travels to the cytoplasm as part of the exon junction complex (EJC) bound to mRNA.

## Images

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ab153087 on a 12.5% SDS-PAGE stained with Coomassie Blue.

SDS-PAGE - Recombinant Human NXF1 protein  
(ab153087)

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

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