


Product datasheet

Anti-NXF1 antibody [EPR8010] ab129171

Recombinant RabMAb

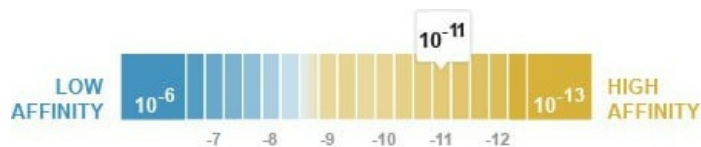
3 Images

Overview

<b>Product name</b>	Anti-NXF1 antibody [EPR8010]
<b>Description</b>	Rabbit monoclonal [EPR8010] to NXF1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB <b>Unsuitable for:</b> Flow Cyt, ICC/IF, IHC-P or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Synthetic peptide within Human NXF1 aa 550-650 (C terminal). The exact sequence is proprietary.
<b>Positive control</b>	K562, HeLa and 293T cell lysates
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C.
<b>Dissociation constant (K<sub>D</sub>)</b>	K <sub>D</sub> = 4.70 x 10 <sup>-11</sup> M



[Learn more about K<sub>D</sub>](#)

<b>Storage buffer</b>	pH: 7.20
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	Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR8010
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab129171 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>		1/1000 - 1/10000. Predicted molecular weight: 70 kDa.

**Application notes** Is unsuitable for Flow Cyt, ICC/IF, IHC-P or IP.

## Target

**Function** 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.

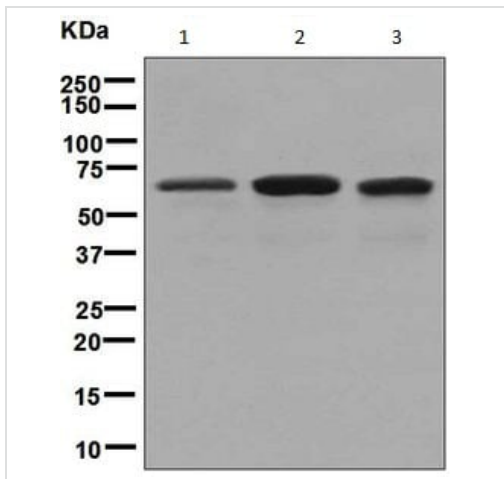
**Tissue specificity** Expressed ubiquitously.

**Sequence similarities** 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.

**Domain** The minimal CTE binding domain consists of an RNP-type RNA binding domain (RBD) and leucine-rich repeats.  
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.  
The NTF2 domain is functional only in the presence of NXT1 and is essential for the export of mRNA from the nucleus.  
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.  
The leucine-rich repeats are essential for the export of mRNA from the nucleus.  
The RNA-binding domain is a non-canonical RNP-type domain.

**Cellular localization** 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



Western blot - Anti-NXF1 antibody [EPR8010]  
(ab129171)

**All lanes** : Anti-NXF1 antibody [EPR8010] (ab129171) at 1/1000 dilution

**Lane 1** : K562 cell lysates

**Lane 2** : HeLa cell lysates

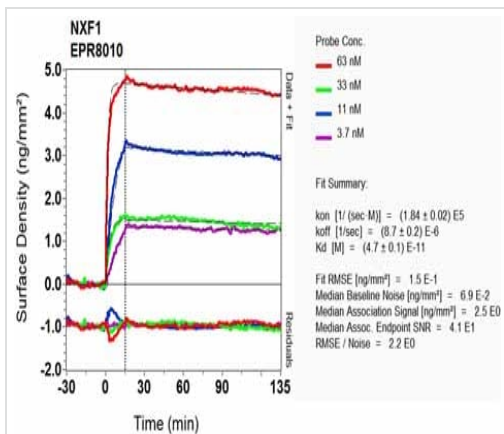
**Lane 3** : 293T cell lysates

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes** : HRP labelled Goat anti-Rabbit IgG at 1/2000 dilution

**Predicted band size:** 70 kDa



O1-RD Scanning - Anti-NXF1 antibody [EPR8010]  
(ab129171)

Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-NXF1 antibody [EPR8010] (ab129171)

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

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