

## Product datasheet

### Anti-RNF7 antibody [EPR12001] ab181986

Recombinant RabMAb

★★★★☆ [1 Abreviews](#) [5 References](#) [6 Images](#)

#### Overview

<b>Product name</b>	Anti-RNF7 antibody [EPR12001]
<b>Description</b>	Rabbit monoclonal [EPR12001] to RNF7
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat 
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	HepG2, Mouse kidney or Mouse heart lysate, Human transitional cell carcinoma of bladder or Mouse liver tissue, HepG2 cells.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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> <p>For more information <a href="#">see here</a>.</p> <p>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>.</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.01% Sodium azide Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), 59% PBS
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR12001
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab181986 in the following tested applications.

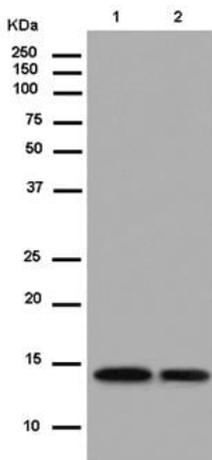
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/50. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. For antigen retrieval heat up to 98 °C, below boiling, and then let cool for 10-20 min.
WB		1/1000 - 1/10000. Predicted molecular weight: 13 kDa.
ICC/IF	★★★★★ (1)	1/100.

## Target

<b>Function</b>	Probable component of the SCF (SKP1-CUL1-F-box protein) E3 ubiquitin ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins involved in cell cycle progression, signal transduction and transcription. Through the RING-type zinc finger, seems to recruit the E2 ubiquitination enzyme to the complex and brings it into close proximity to the substrate. Promotes the neddylation of CUL5 via its interaction with UBE2F. May play a role in protecting cells from apoptosis induced by redox agents.
<b>Tissue specificity</b>	Expressed in heart, liver, skeletal muscle and pancreas. At very low levels expressed in brain, placenta and lung.
<b>Pathway</b>	Protein modification; protein ubiquitination.
<b>Sequence similarities</b>	Belongs to the RING-box family. Contains 1 RING-type zinc finger.
<b>Domain</b>	The RING-type zinc finger domain is essential for ubiquitin ligase activity. It coordinates an additional third zinc ion.
<b>Post-translational modifications</b>	Phosphorylation by CK2 is required for efficient degradation of NFKBIA and CDKN1B.
<b>Cellular localization</b>	Cytoplasm. Nucleus.

## Images



Western blot - Anti-RNF7 antibody [EPR12001] (ab181986)

**All lanes** : Anti-RNF7 antibody [EPR12001] (ab181986) at 1/5000 dilution

**Lane 1** : Mouse heart tissue lysate

**Lane 2** : Mouse kidney tissue lysate

Lysates/proteins at 20 µg per lane.

#### Secondary

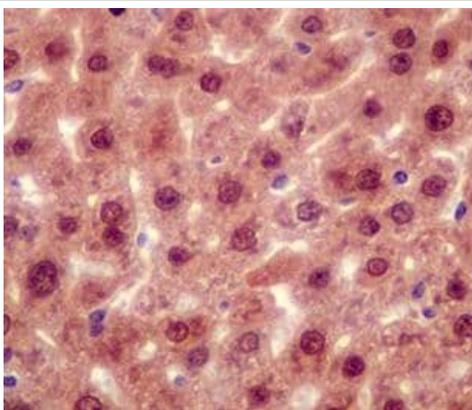
**All lanes** : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 13 kDa



Immunocytochemistry/ Immunofluorescence - Anti-RNF7 antibody [EPR12001] (ab181986)

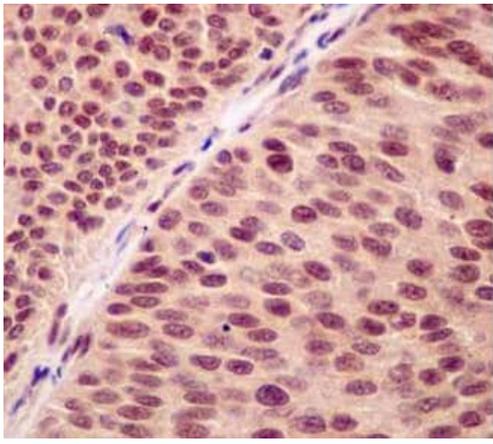
Immunofluorescence analysis of HepG2 cells (fixative 4% paraformaldehyde) labeling RNF7 with ab181986 at a 1/100 dilution. Goat anti rabbit IgG (Dylight 555) secondary used at a 1/200 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RNF7 antibody [EPR12001] (ab181986)

Immunohistochemical analysis of paraffin embedded Mouse liver tissue labeling RNF7 with ab181986 at a 1/50 dilution. Prediluted HRP Polymer for Rabbit IgG secondary used. Counterstained with Hematoxylin.

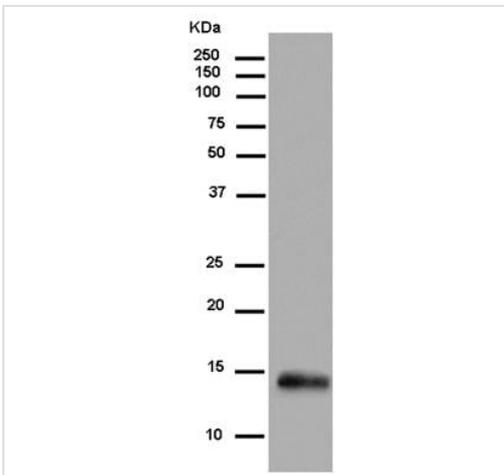
Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RNF7 antibody [EPR12001] (ab181986)

Immunohistochemical analysis of paraffin embedded Human transitional cell carcinoma of bladder tissue labeling RNF7 with ab181986 at a 1/50 dilution. Prediluted HRP Polymer for Rabbit IgG secondary used. Counterstained with Hematoxylin.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Western blot - Anti-RNF7 antibody [EPR12001] (ab181986)

Anti-RNF7 antibody [EPR12001] (ab181986) at 1/5000 dilution + HepG2 lysate at 10 µg

**Secondary**

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size: 13 kDa**

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-RNF7 antibody [EPR12001] (ab181986)

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

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