

## Product datasheet

# Anti-hnRNP C1 + C2/HNRNPC antibody [EPNCIR152] ab133607

Recombinant RabMAb

★★★★★ 2 Abreviews 8 References 5 Images

### Overview

<b>Product name</b>	Anti-hnRNP C1 + C2/HNRNPC antibody [EPNCIR152]
<b>Description</b>	Rabbit monoclonal [EPNCIR152] to hnRNP C1 + C2/HNRNPC
<b>Host species</b>	Rabbit
<b>Specificity</b>	This antibody is specific to isoform C2.
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: HeLa, MCF7, HepG2, K562, and 293T cell lysates IHC-P: Human kidney and Human thyroid carcinoma tissues
<b>General notes</b>	<p>This antibody was developed as part of a collaboration between the National Cancer Institute's Center for Cancer Research and the lab of Mirit Aladjem. <a href="#">View antibodies from NCI Center for Cancer Research Collaboration.</a></p> <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 -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.2 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>	EPNCIR152
<b>Isotype</b>	IgG

## Applications

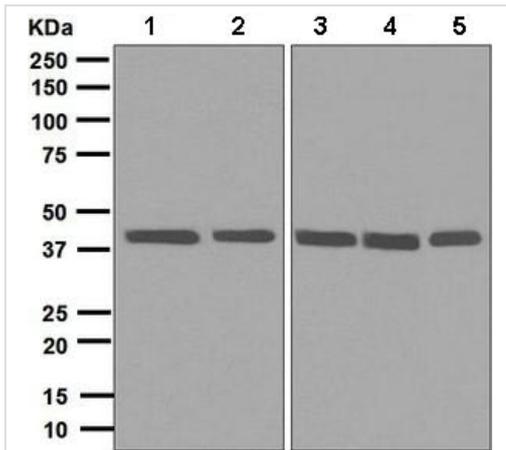
**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab133607 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>	★★★★★ (1)	1/10000 - 1/50000. Detects a band of approximately 42 kDa (predicted molecular weight: 33 kDa).
<b>IHC-P</b>		1/250 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
<b>ICC/IF</b>		1/250 - 1/500.

## Target

<b>Function</b>	Binds pre-mRNA and nucleates the assembly of 40S hnRNP particles (PubMed:8264621). Specifically recognizes and binds N6-methyladenosine (m6A)-containing RNAs, a modification present at internal sites of mRNAs that affects mRNA splicing, processing and stability. M6A alters the local structure in mRNAs and long non-coding RNAs (lncRNAs) via a mechanism named 'm(6)A-switch' to facilitate binding of HNRNPC, leading to regulation of mRNA splicing (PubMed:25719671). Single HNRNPC tetramers bind 230-240 nucleotides. Trimers of HNRNPC tetramers bind 700 nucleotides. May play a role in the early steps of spliceosome assembly and pre-mRNA splicing. Interacts with poly-U tracts in the 3'-UTR or 5'-UTR of mRNA and modulates the stability and the level of translation of bound mRNA molecules (PubMed:12509468, PubMed:16010978, PubMed:7567451, PubMed:8264621).
<b>Sequence similarities</b>	Belongs to the RRM HNRPC family. RALY subfamily. Contains 1 RRM (RNA recognition motif) domain.
<b>Post-translational modifications</b>	Phosphorylated on Ser-260 and Ser-299 in resting cells. Phosphorylated on Ser-253 and on 1 serine residue in the poly-Ser stretch at position 238 in response to hydrogen peroxide. Sumoylated. Sumoylation reduces affinity for mRNA.
<b>Cellular localization</b>	Nucleus. Component of ribonucleosomes.

## Images



Western blot - Anti-hnRNP C1 + C2/HNRNPC antibody [EPNCIR152] (ab133607)

**All lanes :** Anti-hnRNP C1 + C2/HNRNPC antibody [EPNCIR152] (ab133607) at 1/10000 dilution

**Lane 1 :** HeLa cell lysate

**Lane 2 :** MCF7 cell lysate

**Lane 3 :** HepG2 cell lysate

**Lane 4 :** K562 cell lysate

**Lane 5 :** 293T cell lysate

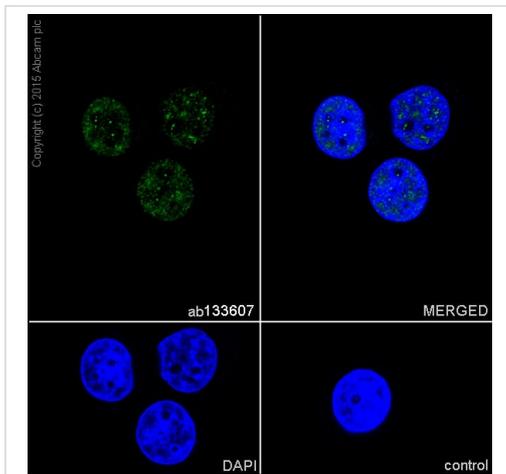
Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes :** HRP labelled goat anti-rabbit at 1/2000 dilution

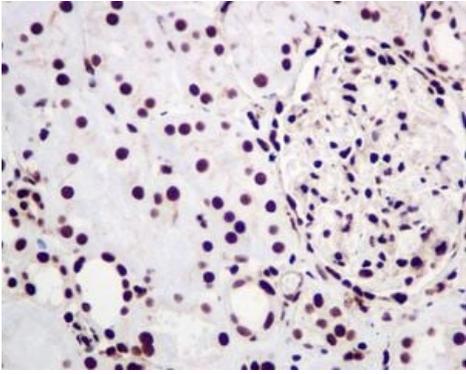
**Predicted band size:** 33 kDa

Actual band size : 42 kDa



Immunocytochemistry/ Immunofluorescence - Anti-hnRNP C1 + C2/HNRNPC antibody [EPNCIR152] (ab133607)

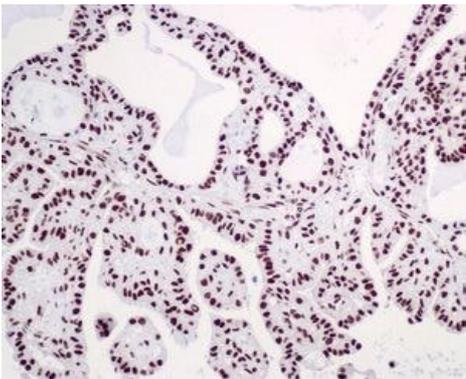
Immunofluorescence staining of MCF-7 cells with purified ab133607 at a working dilution of 1/500, counter-stained with DAPI. The secondary antibody was an Alexa Fluor® 488 conjugated goat anti-rabbit (ab150077), used at a dilution of 1/1000. The cells were fixed in 4% PFA and permeabilized using 0.1% Triton X 100. The negative control is shown in bottom right hand panel - for the negative control, PBS was used instead of the primary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP C1 + C2/HNRNPC antibody [EPNCIR152] (ab133607)

Immunohistochemical analysis of paraffin embedded Human kidney tissue labelling hnRNP C1 + C2/HNRNPC with ab133607 antibody at a dilution of 1/250.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP C1 + C2/HNRNPC antibody [EPNCIR152] (ab133607)

Immunohistochemical analysis of paraffin embedded Human thyroid carcinoma tissue labelling hnRNP C1 + C2/HNRNPC with ab133607 antibody at a dilution of 1/250.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

### 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-hnRNP C1 + C2/HNRNPC antibody

[EPNCIR152] (ab133607)

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

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