

## Product datasheet

# Anti-APOBEC3B antibody [EPR18138] ab184990

Recombinant RabMAb

★★★★★ [3 Abreviews](#) [13 References](#) [4 Images](#)

### Overview

|                            |  |
|----------------------------|--|
| <b>Product name</b>        | Anti-APOBEC3B antibody [EPR18138]  |
| <b>Description</b>         | Rabbit monoclonal [EPR18138] to APOBEC3B   |
| <b>Host species</b>        | Rabbit   |
| <b>Tested applications</b> | <b>Suitable for:</b> WB  |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human  |
| <b>Immunogen</b>           | Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.   |
| <b>Positive control</b>    | WB: Human APOBEC3B fragment recombinant protein, HepaRG-APOBEC3B tetracycline-inducible cell line, HCC1143 cell line infected with control (+), APOBEC3B lentivirus (-), HEK293-APOBEC3B(+GFP) tetracycline-inducible cell line and A431 whole cell lysate.  |
| <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>       | pH: 7.2<br>Preservative: 0.01% Sodium azide<br>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA               |
| <b>Purity</b>               | Protein A purified  |
| <b>Clonality</b>            | Monoclonal  |
| <b>Clone number</b>         | EPR18138  |

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab184990 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  |
|-------------|-----------|--|
| WB          | ★★★★★ (2) | 1/500 - 1/10000. Detects a band of approximately 35,38,46,70 kDa (predicted molecular weight: 46 kDa). |

## Target

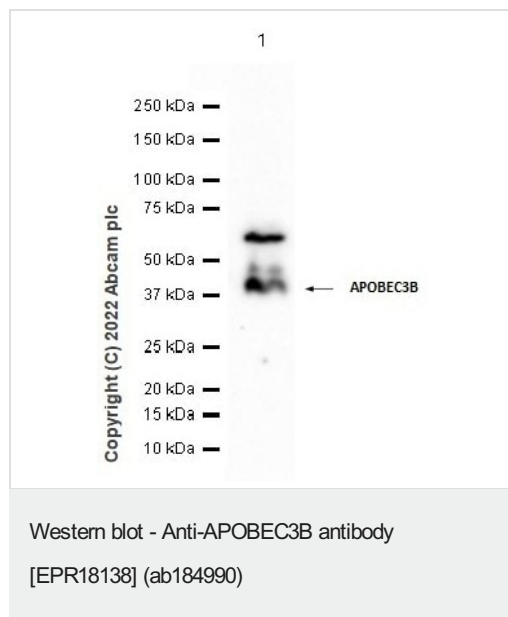
### Relevance

APOBEC3B is a member of the cytidine deaminase gene family. However, it lacks cytidine deaminase activity, at least on RNA molecules (monomeric nucleoside substrates or synthetic apoB, NF1 and NAT1 RNA template). It binds to apoB and AU-rich RNAs. It is unable to reduce HIV-1 infectivity in vitro.

### Cellular localization

Nuclear

## Images



Anti-APOBEC3B antibody [EPR18138] (ab184990) at 1/500 dilution + A431 (Human epidermoid carcinoma epithelial cell) whole cell lysate at 20 µg

### Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 46 kDa

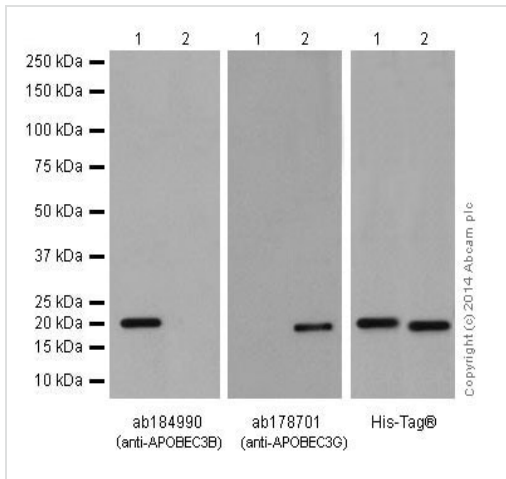
**Observed band size:** 38 kDa

**Exposure time:** 180 seconds

**Blocking buffer and concentration:** 5% NFDM/TBST

**Diluting buffer and concentration:** 5% NFDM /TBST

We are unsure of the identity of the 55kda band.



Western blot - Anti-APOBEC3B antibody [EPR18138] (ab184990)

**All lanes :** Anti-APOBEC3B antibody [EPR18138] (ab184990) at 1/1000 dilution

**Lane 1 :** Human APOBEC3B fragment recombinant protein

**Lane 2 :** Human APOBEC3G fragment recombinant protein

Lysates/proteins at 0.01 µg per lane.

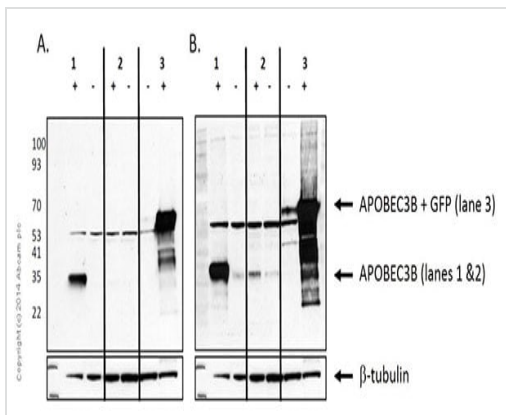
**Secondary**

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/1000 dilution

**Predicted band size:** 46 kDa

**Observed band size:** 46 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.



Western blot - Anti-APOBEC3B antibody [EPR18138] (ab184990)

**All lanes :** Anti-APOBEC3B antibody [EPR18138] (ab184990) at 1/10000 dilution

**Lane 1 :** HepaRG-APOBEC3B tetracycline-inducible cell line (+/-)

**Lane 2 :** HCC1143 cell line infected with control (+) and APOBEC3B lentivirus (-)

**Lane 3 :** HEK293-APOBEC3B(+GFP) tetracycline-inducible cell line (+/-)

Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes :** Goat Anti-Rabbit IgG (H+L) conjugated to HRP at 1/10000 dilution

**Predicted band size:** 46 kDa

**Observed band size:** 35,70 kDa

Blocking buffer: 5% NFDm/TBST.


Dilution buffer: 1% NFD/MTBST.

Exposure time: Panel A: 20 s; Panel B: 1 min.

Figure provided by Dr. Jenni Nikkila. Gene Function Lab at The Institute of Cancer Research, London. HEK293-APOBEC3B(+GFP) tetracycline-inducible cell line provide by Dr Reuben Harris, University of Minnesota, Minneapolis - cited in Akre, M.K, G.J. Starrett, J.S. Quist, N.A. Temiz, M.A. Carpenter, A.N.J. Tutt, A. Grigoriadis & R.S. Harris (2016) Mutation processes in 293-based clones overexpressing the DNA cytosine deaminase APOBEC3B. PLoS One11(5):e0155391. doi: 10.1371/journal.pone.0155391.

The 35 kDa band represents a known splice variant of APOBEC3B.

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-APOBEC3B antibody [EPR18138] (ab184990)

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

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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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