

## Product datasheet

### Anti-UFC1 antibody [EPR15014] ab189251

KO VALIDATED

Recombinant

RabMAb<sup>®</sup>

[3 References](#) [7 Images](#)

#### Overview

<b>Product name</b>	Anti-UFC1 antibody [EPR15014]
<b>Description</b>	Rabbit monoclonal [EPR15014] to UFC1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Human fetal liver tissue lysate and HEK-293T, HAP1, A549, U-87 MG, MCF7, C6, PC12, Raw 264.7 and NIH 3T3 cell lysates. IHC-P: Human colon and hepatocellular carcinoma tissues.
<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>	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR15014
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab189251 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		1/10000 - 1/50000. Detects a band of approximately 19 kDa (predicted molecular weight: 19 kDa).
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

## Target

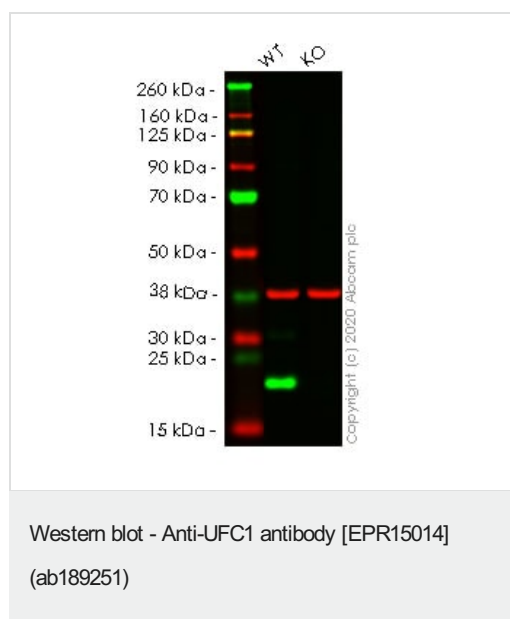
### Function

E2-like enzyme which forms an intermediate with UFM1 via a thioester linkage.

### Sequence similarities

Belongs to the ubiquitin-conjugating enzyme family. UFC1 subfamily.

## Images



**All lanes :** Anti-UFC1 antibody [EPR15014] (ab189251) at 1/10000 dilution

**Lane 1 :** Wild-type HEK-293T cell lysate

**Lane 2 :** UFC1 knockout HEK-293T cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

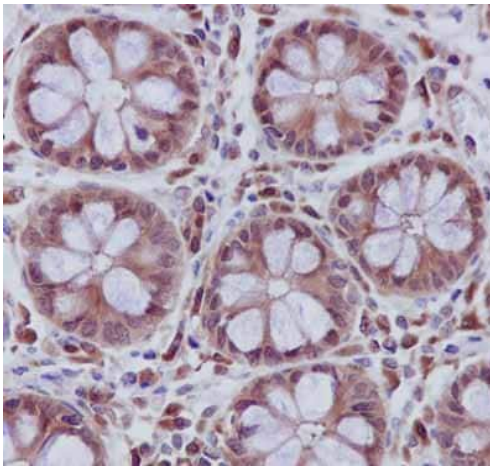
**Predicted band size:** 19 kDa

**Observed band size:** 20 kDa

**Lanes 1- 2:** Merged signal (red and green). Green - ab189251 observed at 20 kDa. Red - Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) observed at 37 kDa.

ab189251 was shown to react with UFC1 in wild-type HEK-293T cells in western blot. Loss of signal was observed when knockout cell line **ab266814** (knockout cell lysate **ab257781**) was used. Wild-type HEK-293T and UFC1 HEK-293T KO cell lysates were

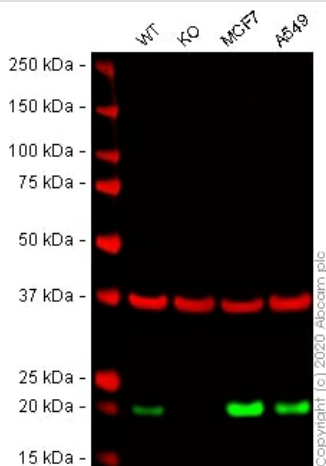
subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. ab189251 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) overnight at 4°C at a 1 in 10000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye®800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye®680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-UFC1 antibody [EPR15014] (ab189251)

Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling UFC1 with ab189251 at 1/100 dilution, followed by prediluted HRP Polymer for Rabbit IgG. Counter stained with hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-UFC1 antibody [EPR15014] (ab189251)

**All lanes :** Anti-UFC1 antibody [EPR15014] (ab189251) at 1/10000 dilution

**Lane 1 :** Wild-type HAP1 cell lysate

**Lane 2 :** UFC1 knockout HAP1 cell lysate

**Lane 3 :** MCF7 cell lysate

**Lane 4 :** A549 cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

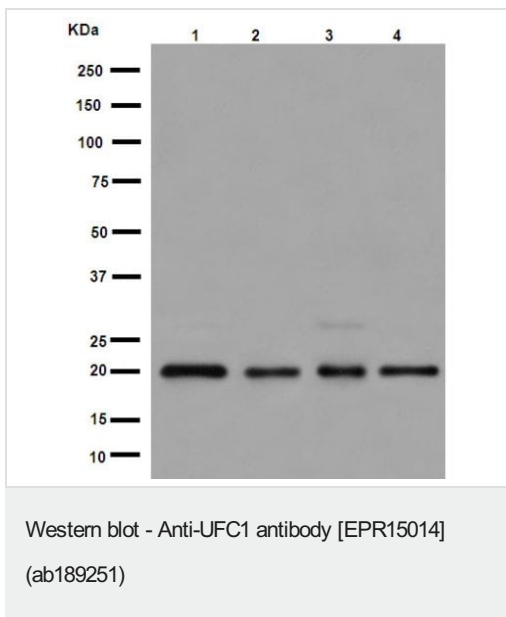
**Predicted band size:** 19 kDa

**Observed band size:** 20 kDa

**Lanes 1 - 4:** Merged signal (red and green). Green - ab189251

observed at 20 kDa. Red - loading control, **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37kDa.

ab189251 was shown to react with UFC1 in wild-type HAP1 cells in Western blot. Loss of signal was observed when UFC1 knockout sample was used. Wild-type HAP1 and UFC1 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with ab189251 and **ab8245** (Mouse anti-GAPDH antibody [6C5]) overnight at 4°C at a 1 in 10000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



**All lanes** : Anti-UFC1 antibody [EPR15014] (ab189251) at 1/20000 dilution

**Lane 1** : Human fetal liver lysate

**Lane 2** : A549 cell lysate

**Lane 3** : U-87 MG cell lysate

**Lane 4** : MCF7 cell lysate

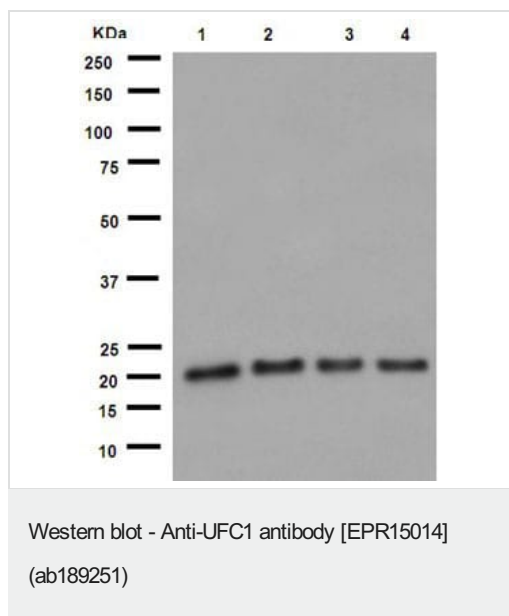
Lysates/proteins at 20 µg per lane.

#### Secondary

**All lanes** : Goat anti-rabbit IgG, (H+L), peroxidase conjugate at 1000 µg

**Predicted band size:** 19 kDa

**Observed band size:** 19 kDa



**All lanes** : Anti-UFC1 antibody [EPR15014] (ab189251) at 1/5000 dilution

**Lane 1** : C6 cell lysate

**Lane 2** : Raw 264.7 cell lysate

**Lane 3** : PC12 cell lysate

**Lane 4** : NIH 3T3 cell lysate

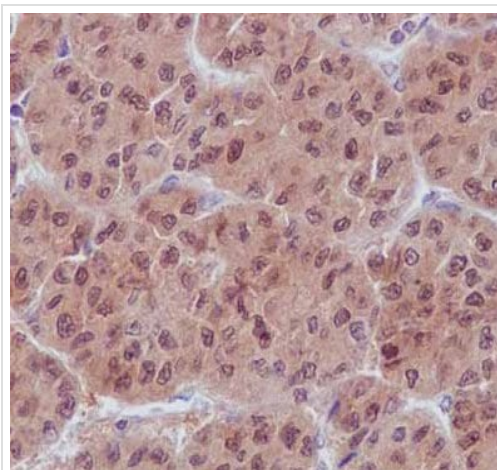
Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes** : Goat anti-rabbit IgG, (H+L), peroxidase conjugate at 1/1000 dilution

**Predicted band size:** 19 kDa

**Observed band size:** 19 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-UFC1 antibody [EPR15014] (ab189251)

Immunohistochemical analysis of paraffin-embedded Human hepatocellular carcinoma tissue labeling UFC1 with ab189251 at 1/100 dilution, followed by prediluted HRP Polymer for Rabbit IgG. Counter stained with hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 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-UFC1 antibody [EPR15014] (ab189251)

**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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