

Product datasheet

Anti-UFC1 antibody [EPR15014-102] ab189252

KO VALIDATED

Recombinant

RabMAb[®]

★★★★★ [1 Abreviews](#) [2 References](#) [7 Images](#)

Overview

Product name	Anti-UFC1 antibody [EPR15014-102]
Description	Rabbit monoclonal [EPR15014-102] to UFC1
Host species	Rabbit
Tested applications	Suitable for: IP, WB, IHC-P Unsuitable for: ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human fetal liver tissue lysate and HEK-293T, HAP1, U87-MG, MCF7, A549, RAW 264.7, and NIH 3T3 cell lysates. IHC-P: Human colon and human transitional cell carcinoma of bladder tissues.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR15014-102

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab189252 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
IP		1/50.
WB	★★★★★ (1)	1/1000 - 1/10000. 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.

Application notes

Is unsuitable for ICC/IF.

Target

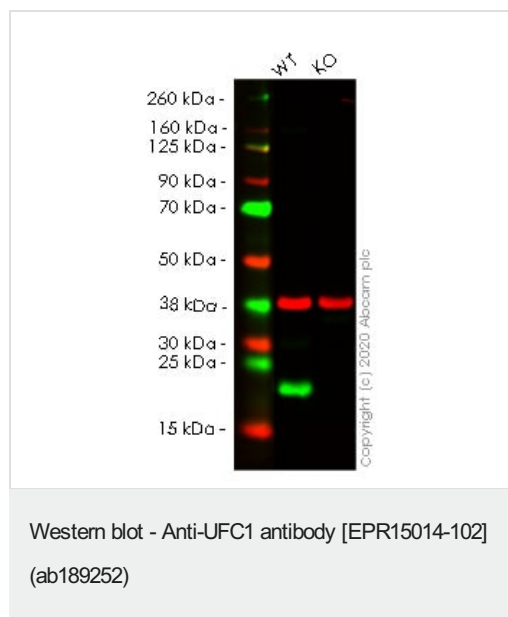
Function

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 [EPR15014-102] (ab189252) at 1/1000 dilution

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

Lane 2 : UFC1 knockout HEK-293T cell lysate

Lysates/proteins at 20 µg per lane.

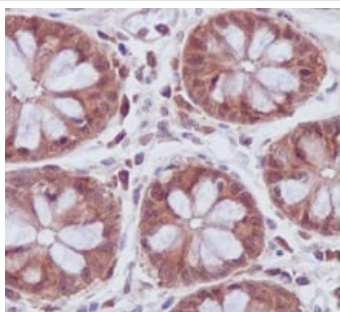
Performed under reducing conditions.

Predicted band size: 19 kDa

Observed band size: 20 kDa

Lanes 1-2: Merged signal (red and green). Green - ab189252 observed at 20 kDa. Red - Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) observed at 37 kDa.

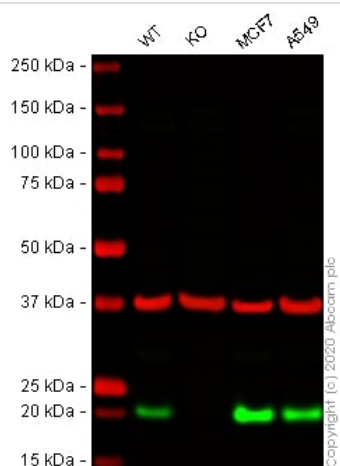
ab189252 was shown to react with UFC1 in wild-type HEK-293T cells in western blot. Loss of signal was observed when knockout cell line **ab266814** (knockout cell lysate **ab257781**) was used. Wild-type HEK-293T and UFC1 HEK-293T KO cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. ab189252 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) overnight at 4°C at a 1 in 1000 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 [EPR15014-102] (ab189252)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human colon tissue labeling UFC1 with ab189252 at 1/100 dilution followed by pre-diluted HRP Polymer for Rabbit IgG secondary antibody and 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 [EPR15014-102] (ab189252)

All lanes : Anti-UFC1 antibody [EPR15014-102] (ab189252) 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.

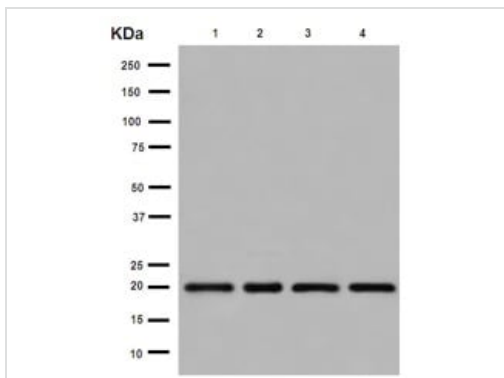
Predicted band size: 19 kDa

Observed band size: 20 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab189252

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

ab189252 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 ab189252 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.



Western blot - Anti-UFC1 antibody [EPR15014-102] (ab189252)

All lanes : Anti-UFC1 antibody [EPR15014-102] (ab189252) at 1/20000 dilution

Lane 1 : Human fetal liver lysate

Lane 2 : U87-MG cell lysate

Lane 3 : MCF7 cell lysate

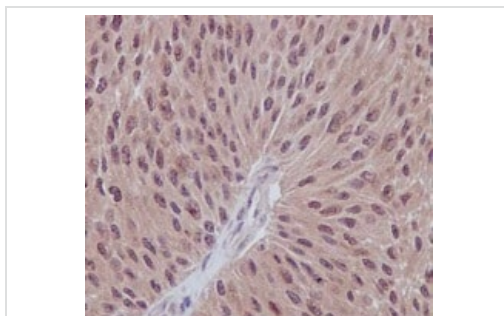
Lane 4 : A549 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

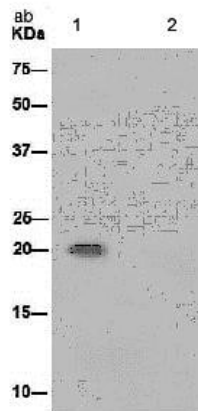
Predicted band size: 19 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-UFC1 antibody [EPR15014-102] (ab189252)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human transitional cell carcinoma of bladder tissue labeling UFC1 with ab189252 at 1/100 dilution followed by pre-diluted HRP Polymer for Rabbit IgG secondary antibody and counter-stained with Hematoxylin.

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







Western blot analysis of immunoprecipitation pellet from MCF7 cell lysate immunoprecipitated using ab189252 at 1/50 dilution (lane 1) or PBS control (lane 2).

Secondary: Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1500 dilution.

Immunoprecipitation - Anti-UFC1 antibody
[EPR15014-102] (ab189252)

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 [EPR15014-102] (ab189252)

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

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