

## Product datasheet

### Anti-Caspase-2 antibody [EPR17881] ab182738

KO VALIDATED

Recombinant

RabMAb<sup>®</sup>

[1 References](#) [5 Images](#)

#### Overview

<b>Product name</b>	Anti-Caspase-2 antibody [EPR17881]
<b>Description</b>	Rabbit monoclonal [EPR17881] to Caspase-2
<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: Jurkat whole cell lysates treated with 25uM etoposide for 5 hours. Hek-293, SK-BR-3 whole cell lysates. Human thymus tissue 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>	<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>	EPR17881
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab182738 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		1/1000. Detects a band of approximately 48, 32 kDa (predicted molecular weight: 51 kDa).

## Target

### Function

Involved in the activation cascade of caspases responsible for apoptosis execution. Might function by either activating some proteins required for cell death or inactivating proteins necessary for cell survival.

### Tissue specificity

Expressed at higher levels in the embryonic lung, liver and kidney than in the heart and brain. In adults, higher level expression is seen in the placenta, lung, kidney, and pancreas than in the heart, brain, liver and skeletal muscle.

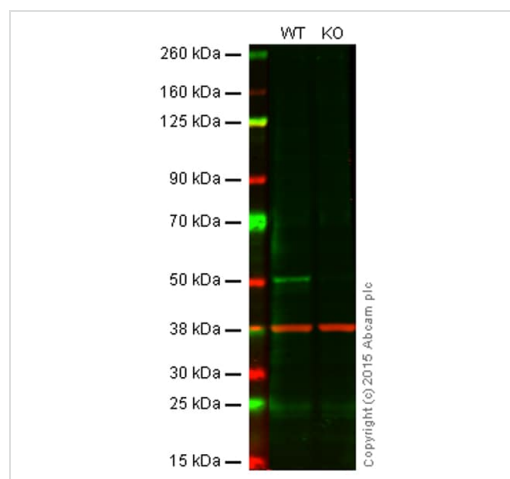
### Sequence similarities

Belongs to the peptidase C14A family.  
Contains 1 CARD domain.

### Post-translational modifications

The mature protease can process its own propeptide, but not that of other caspases.

## Images



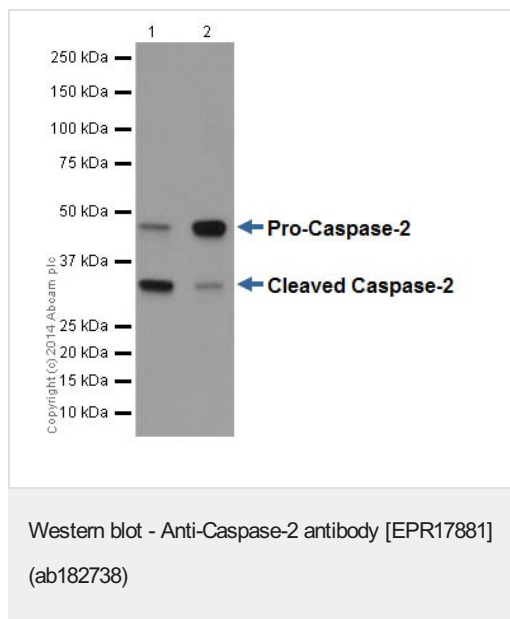
Western blot - Anti-Caspase-2 antibody [EPR17881]  
(ab182738)

**Lane 1:** Wild-type HAP1 cell lysate (20 µg).

**Lane 2:** Caspase 2 knockout HAP1 cell lysate (20 µg).

**Lanes 1 and 2:** Merged signal (red and green). Green - ab182738 observed at 51 kDa. Red - loading control, **ab8226**, observed at 42 kDa.

ab182738 was shown to recognize caspase 2 when caspase 2 knockout samples were used, along with additional cross-reactive bands. Wild-type and caspase 2 knockout samples were subjected to SDS-PAGE. ab182738 and **ab8226** (loading control to beta actin) were both diluted 1/1000 and incubated overnight at 4°C. 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 1/10 000 dilution for 1 h at room temperature before imaging.



**All lanes :** Anti-Caspase-2 antibody [EPR17881] (ab182738) at 1/2000 dilution

**Lane 1 :** Jurkat (Human T cell leukemia cells from peripheral blood) whole cell lysate treated with 25uM etoposide for 5 hours

**Lane 2 :** Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate, untreated

Lysates/proteins at 10 µg per lane.

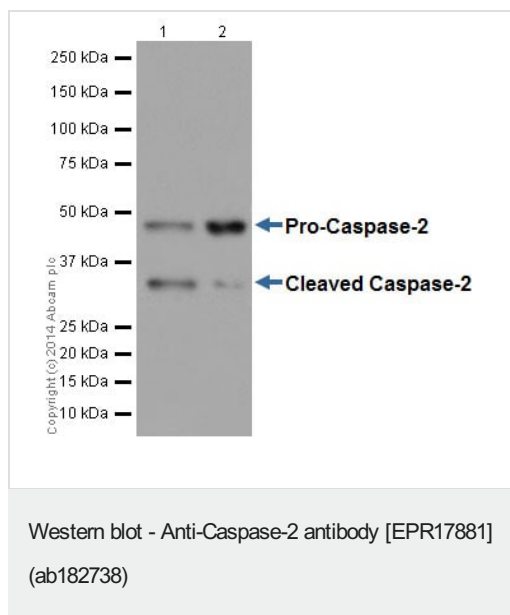
#### Secondary

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

**Predicted band size:** 51 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



**All lanes :** Anti-Caspase-2 antibody [EPR17881] (ab182738) at 1/2000 dilution

**Lane 1 :** HEK-293 (Human epithelial cells from embryonic kidney) whole cell lysates

**Lane 2 :** SK-BR-3 (Human mammary gland adenocarcinoma) whole cell lysates

Lysates/proteins at 10 µg per lane.

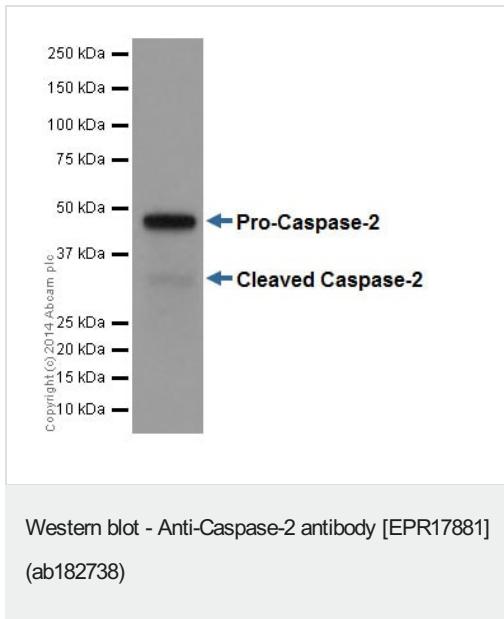
#### Secondary

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

**Predicted band size:** 51 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Anti-Caspase-2 antibody [EPR17881] (ab182738) at 1/1000 dilution + Human thymus tissue lysate at 10 µg

### Secondary





Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

**Predicted band size:** 51 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

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-Caspase-2 antibody [EPR17881] (ab182738)

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

### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- 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

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise,

please visit <https://www.abcam.com/abpromise> or contact our technical team.

### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors