

## Product datasheet

# Anti-Caspase-11 antibody [EPR18628] ab180673

Recombinant RabMAb

★★★★☆ **2** Abreviews **27** References **4** Images

### Overview

<b>Product name</b>	Anti-Caspase-11 antibody [EPR18628]
<b>Description</b>	Rabbit monoclonal [EPR18628] to Caspase-11
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Untreated and treated with Lipopolysaccharide 10µg/ml for 8 hours RAW 264.7 whole cell lysate; YAC-1 and bEnd.3 whole cell lysates. IP: RAW 264.7 treated with Lipopolysaccharide 10µg/ml for 8 hours 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>	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR18628
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab180673 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)	1/1000. Detects a band of approximately 43, 35, 30 kDa (predicted molecular weight: 43 kDa).
IP		1/50.

## Target

### Function

Involved in ER-stress induced apoptosis. Cleaves caspase-1 (By similarity). Involved in the activation cascade of caspases responsible for apoptosis execution. Promotes IL-1 beta processing by ICE, so may also have a role in inflammatory responses.

### Tissue specificity

Mostly expressed in lung and spleen; weaker in heart and lung; little in liver, skeletal muscle, kidney and testis. Not found in the brain.

### Sequence similarities

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

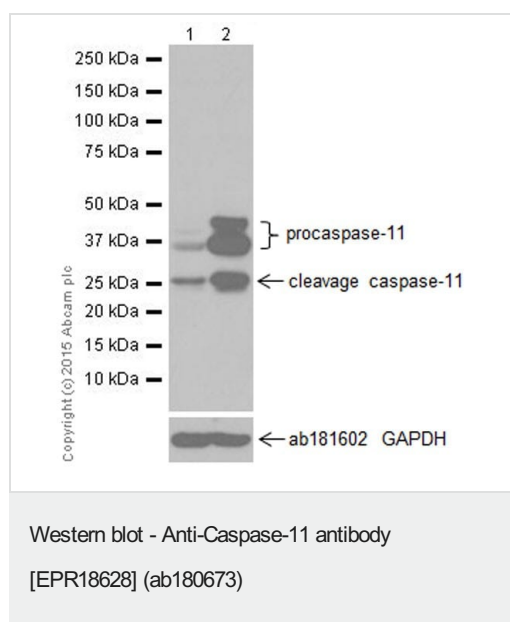
### Post-translational modifications

The two subunits are derived from the precursor sequence by a autocatalytic mechanism.

### Cellular localization

Endoplasmic reticulum membrane. Mitochondrion.

## Images



**All lanes** : Anti-Caspase-11 antibody [EPR18628] (ab180673) at 1/1000 dilution

**Lane 1** : Untreated RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate

**Lane 2** : RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) treated with Lipopolysaccharide 10µg/ml for 8 hours whole cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

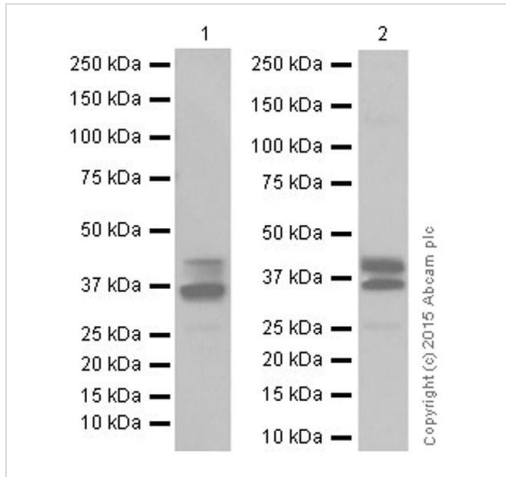
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

**Predicted band size:** 43 kDa

**Observed band size:** 25,35,43 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.



Western blot - Anti-Caspase-11 antibody [EPR18628] (ab180673)

**All lanes :** Anti-Caspase-11 antibody [EPR18628] (ab180673) at 1/1000 dilution

**Lane 1 :** YAC-1 (Mouse lymphoma cell line) whole cell lysate

**Lane 2 :** bEnd.3 (Mouse brain endothelioma cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

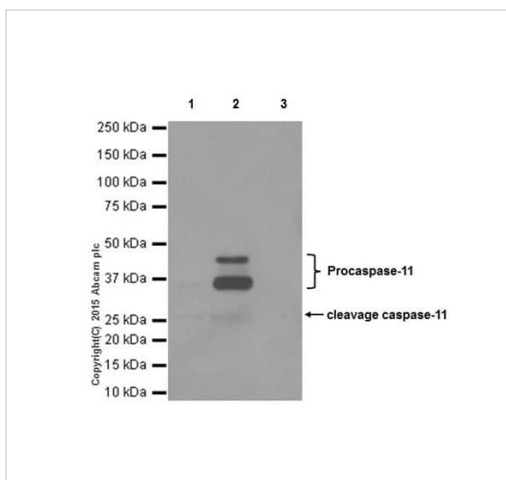
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

**Predicted band size:** 43 kDa

**Observed band size:** 25,35,43 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: Lane 1: 15 seconds; Lane 2: 3 minutes.



Immunoprecipitation - Anti-Caspase-11 antibody [EPR18628] (ab180673)

Caspase-11 was immunoprecipitated from 1 mg of RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) treated with Lipopolysaccharide 10 µg/ml for 8 hours whole cell lysate with ab180673 at 1/50 dilution. Western blot was performed from the immunoprecipitate using ab180673 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10000 dilution.

Lane 1: RAW 264.7 treated with Lipopolysaccharide 10 µg/ml for 8 hours whole cell lysate, 10 µg (Input).


Lane 2: ab180673 IP in RAW 264.7 treated with Lipopolysaccharide 10 µg/ml for 8 hours whole cell lysate.

Lane 3: Rabbit IgG, monoclonal [EPR25A] - Isotype Control ([ab172730](#)) instead of ab180673 in RAW 264.7 treated with Lipopolysaccharide 10 µg/ml for 8 hours whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFD/MTBST.

Exposure time: 3 minutes.

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-Caspase-11 antibody [EPR18628] (ab180673)

**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
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