

## Product datasheet

# Anti-Caspase-11 antibody [EPR18628] - BSA and Azide free ab240991

Recombinant RabMAb

2 Images

### Overview

<b>Product name</b>	Anti-Caspase-11 antibody [EPR18628] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR18628] to Caspase-11 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IP, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	Recombinant fragment within Mouse Caspase-11 aa 50-300. The exact sequence is proprietary. Database link: <a href="#">P70343</a>
<b>Positive control</b>	IP: RAW 264.7 treated with Lipopolysaccharide 10µg/ml for 8 hours whole cell lysate.
<b>General notes</b>	Ab240991 is the carrier-free version of <a href="#">ab180673</a> . This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.

Our [carrier-free formats](#) are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.

Use our [conjugation kits](#) for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

ab240991 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.

*Maxpar® is a trademark of Fluidigm Canada Inc.*

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR18628
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab240991** 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		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 43, 35, 30 kDa (predicted molecular weight: 43 kDa).

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## Target

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**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.

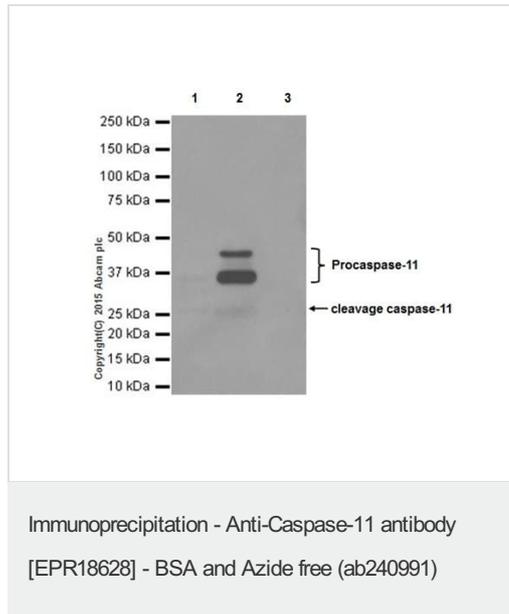
### Post-translational modifications

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

### Cellular localization

Endoplasmic reticulum membrane. Mitochondrion.

## Images



Caspase-11 was immunoprecipitated from 1mg of RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) treated with Lipopolysaccharide 10µg/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 10µg/ml for 8 hours whole cell lysate, 10µg (Input).

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

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 3 minutes.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab180673](#)).

### 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] - BSA and Azide free (ab240991)

**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

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- 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

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