

Product datasheet

Anti-pro Caspase-1 + p10 + p12 antibody [EPR16883] ab179515

Recombinant RabMAb

★★★★☆ **3 Abreviews** **228 References** [6 Images](#)

Overview

Product name	Anti-pro Caspase-1 + p10 + p12 antibody [EPR16883]
Description	Rabbit monoclonal [EPR16883] to pro Caspase-1 + p10 + p12
Host species	Rabbit
Specificity	This antibody has low affinity in Ms/Rt brain, H1299 and A549
Tested applications	Suitable for: WB, IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Untreated THP-1 and treated with 80nM TPA overnight, then treated with 1 µg/ml LPS for 8 hours whole cell lysates; Rat lung and spleen lysates; Human fetal lung lysates; J774A.1 and RAW 264.7 whole cell lysates. Mouse and rat brain lysates, A549 cells, NCI-H1299 cells. IP: RAW 264.7 whole cell lysate.
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	Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR16883
Isotype	IgG

Applications

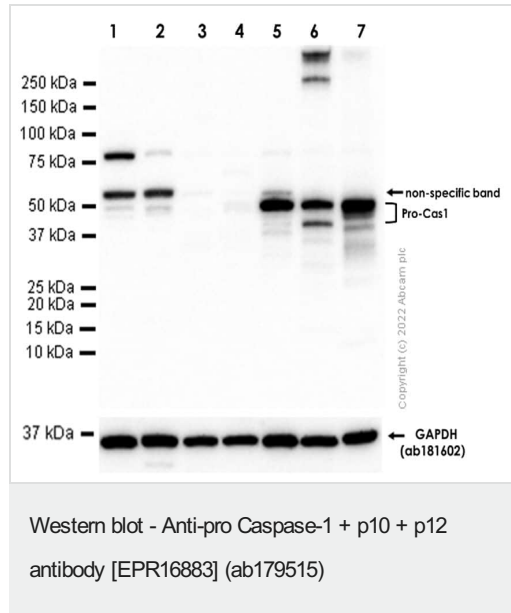
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab179515 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (2)	1/1000. Detects a band of approximately 45, 42, 35, 12, 10 kDa (predicted molecular weight: 45, 42, 35, 12, 10 kDa).
IP		1/100.

Target

Cellular localization Cytoplasmic

Images



All lanes : Anti-pro Caspase-1 + p10 + p12 antibody [EPR16883] (ab179515) at 1/1000 dilution

Lane 1 : Mouse brain lysate

Lane 2 : Rat brain lysate

Lane 3 : NCI-H1299 (Human lung carcinoma epithelial cell) whole cell lysate

Lane 4 : A549 (Human lung carcinoma epithelial cell) whole cell lysate

Lane 5 : RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysate

Lane 6 : Mouse spleen lysate

Lane 7 : Rat spleen lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

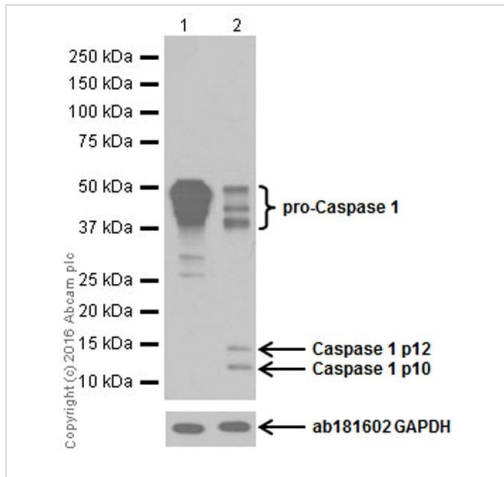
Predicted band size: 45, 42, 35, 12, 10 kDa

Observed band size: 53 kDa

Blocking and diluting buffer: 5% NFDm/TBST

Exposure time: 7 seconds

ab179515 has low affinity in Ms/Rt brain,H1299 and A549



Western blot - Anti-pro Caspase-1 + p10 + p12 antibody [EPR16883] (ab179515)

All lanes : Anti-pro Caspase-1 + p10 + p12 antibody [EPR16883] (ab179515) at 1/1000 dilution

Lane 1 : Untreated THP-1 (Human monocytic leukemia cell line) whole cell lysate

Lane 2 : THP-1 (Human monocytic leukemia cell line) treated with 80nM TPA overnight, then treated with 1 µg/ml LPS 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

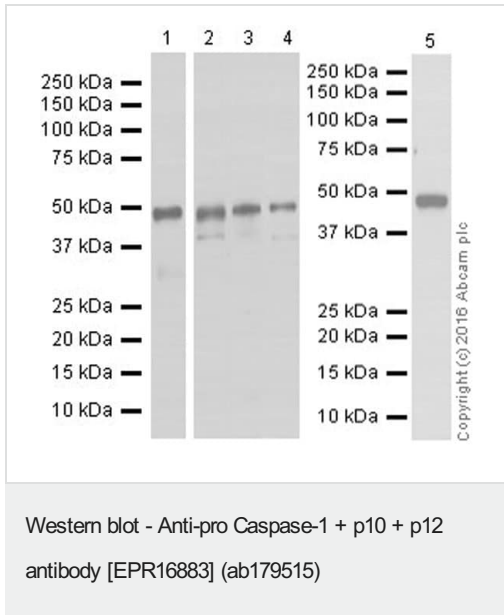
Predicted band size: 45, 42, 35, 12, 10 kDa

Observed band size: 10,12,35,42,45 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.

There are six pro-caspase 1 isoforms, generating products between 30–45kDa, Pro-Caspase 1 is cleaved into p20 and p10(p12) subunits. PMID: 8662843. The product recognizes p10(p12) cleavage fragment where the immunogen is located.



All lanes : Anti-pro Caspase-1 + p10 + p12 antibody [EPR16883] (ab179515) at 1/1000 dilution

Lane 1 : Rat lung lysate

Lane 2 : Human fetal lung lysate

Lane 3 : J774A.1 (Mouse macrophage reticulum cell sarcoma cell line) whole cell lysate

Lane 4 : Rat spleen lysate

Lane 5 : RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

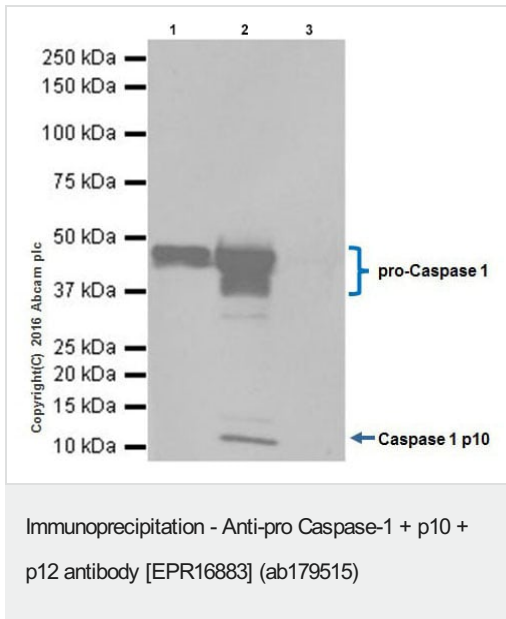
Predicted band size: 45, 42, 35, 12, 10 kDa

Observed band size: 42,45 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: Lane 1: 30 seconds; Lane 2,3 and 4: 10 seconds;

Lane 5: 8 seconds.



pro Caspase1 + p10 + p12 was immunoprecipitated from 1mg of RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate with ab179515 at 1/100 dilution.

Western blot was performed from the immunoprecipitate using ab179515 at 1/1000 dilution.

VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10000 dilution.

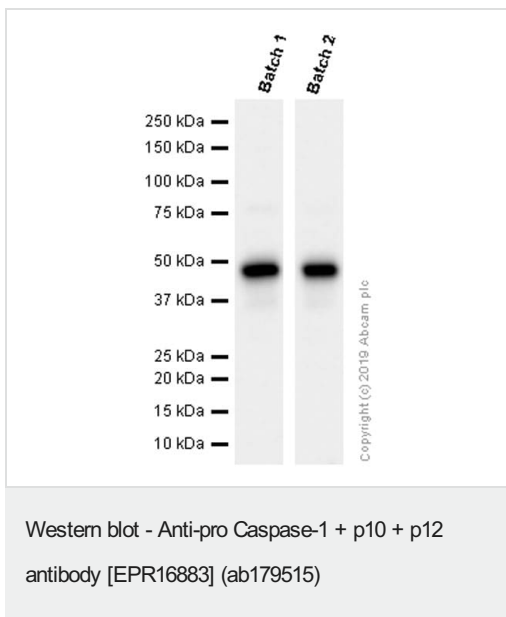
Lane 1: RAW 264.7 whole cell lysate, 10µg (Input).

Lane 2: ab179515 IP in RAW 264.7 whole cell lysate.

Lane 3: Rabbit IgG, monoclonal [EPR25A] - Isotype Control ([ab172730](#)) instead of ab179515 in RAW 264.7 whole cell lysate.

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

Exposure time: 10 seconds.



Different batches of ab179515 were tested on RAW 264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) lysate at 1.7 µg/ml. 15 µg of lysate was loaded in each lane. Bands observed at 42,45 kDa.

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-pro Caspase-1 + p10 + p12 antibody
[EPR16883] (ab179515)

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

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