Overview

Product name: Anti-pro Caspase1 + p10 + p12 antibody [EPR16883]
Description: Rabbit monoclonal [EPR16883] to pro Caspase1 + p10 + p12
Host species: Rabbit
Tested applications: Suitable for: WB, IP
Species reactivity: Reacts with: Mouse, Rat, Human
Immunogen: Recombinant fragment within Human pro Caspase1 + p10 + p12 aa 250 to the C-terminus. The exact sequence is proprietary.
Database link: P29466

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. IP: RAW 264.7 whole cell lysate.

General notes:

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

This product is a recombinant rabbit monoclonal antibody.

Properties

Form: Liquid
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

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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>WB</td>
<td>⭐⭐⭐⭐ROTO</td>
<td>1/1000. Detects a band of approximately 45, 42, 35, 12, 10 kDa (predicted molecular weight: 45, 42, 35, 12, 10 kDa).</td>
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<tr>
<td>IP</td>
<td>⭐⭐⭐⭐ROTO</td>
<td>1/100.</td>
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Target

Cellular localization

Cytoplasmic

Images

Western blot - Anti-pro Caspase1 + p10 + p12 antibody [EPR16883] (ab179515)

All lanes: Anti-pro Caspase1 + 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

why is the actual band size different from the predicted?

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 Caspase1 + 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

**why is the actual band size different from the predicted?**

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 secondary antibody (HRP) (ab131366), was used as secondary antibody 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.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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