

# Anti-Caspase-7 antibody [EPR17029] ab181579

リコンビナント RabMAb

## 4 References [画像数 5](#)

### 製品の概要

製品名	Anti-Caspase-7 antibody [EPR17029]
製品の詳細	Rabbit monoclonal [EPR17029] to Caspase-7
由来種	Rabbit
アプリケーション	<b>適用あり:</b> ICC/IF, IP, WB
種交差性	<b>交差種:</b> Mouse, Rat
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Mouse heart, kidney and spleen tissue lysates. C6, RAW 264.7, PC-12 and NIH/3T3 cell lysates. Rat brain, heart, kidney and spleen tissue lysates. ICC/IF and IP: NIH/3T3 cells.
特記事項	<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>

### 製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR17029
アイソタイプ	IgG

## アプリケーション

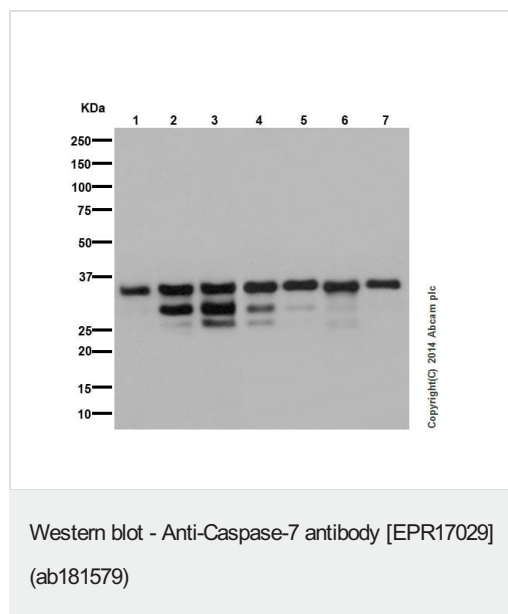
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab181579の使用に適用されず**  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC/IF		1/250.
IP		1/120.
WB		1/5000. Detects a band of approximately 35, 32, 27, 11 kDa (predicted molecular weight: 34 kDa).

## ターゲット情報

機能	Involved in the activation cascade of caspases responsible for apoptosis execution. Cleaves and activates sterol regulatory element binding proteins (SREBPs). Proteolytically cleaves poly(ADP-ribose) polymerase (PARP) at a '216-Asp-Gly-217' bond. Overexpression promotes programmed cell death.
組織特異性	Highly expressed in lung, skeletal muscle, liver, kidney, spleen and heart, and moderately in testis. No expression in the brain.
配列類似性	Belongs to the peptidase C14A family.
翻訳後修飾	Cleavages by granzyme B or caspase-10 generate the two active subunits. Propeptide domains can also be cleaved efficiently by caspase-3. Active heterodimers between the small subunit of caspase-7 and the large subunit of caspase-3, and vice versa, also occur.
細胞内局在	Cytoplasm.

## 画像



**All lanes :** Anti-Caspase-7 antibody [EPR17029] (ab181579) at 1/5000 dilution

**Lane 1 :** Mouse heart tissue lysate

**Lane 2 :** Mouse kidney tissue lysate

**Lane 3 :** Mouse spleen tissue lysate

**Lane 4 :** C6 (Rat glial tumor cells) lysate

**Lane 5 :** RAW 264.7 (Mouse macrophage cells transformed with Abelson murine leukemia virus) lysate

**Lane 6 :** PC-12 (Rat adrenal gland pheochromocytoma) lysate

**Lane 7 :** NIH/3T3 (Mouse embryo fibroblast cells) lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

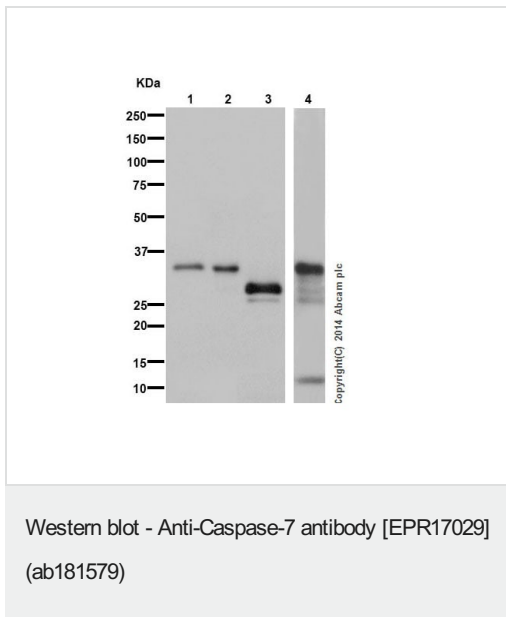
**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 34 kDa

**Observed band size:** 35,32,27 kDa

Observed band size: 35kDa band is the pro-Caspase 7, 32kDa band is the N-terminal propeptide cleaved Caspase 7, and the 27kDa band is an N-terminal truncated caspase 7.

Blocking/Dilution buffer: 5% NFDM/TBST.



**All lanes :** Anti-Caspase-7 antibody [EPR17029] (ab181579) at 1/5000 dilution

**Lane 1 :** Rat brain tissue lysate

**Lane 2 :** Rat heart tissue lysate

**Lane 3 :** Rat kidney tissue lysate

**Lane 4 :** Rat spleen tissue lysate

Lysates/proteins at 10 µg per lane.

### Secondary

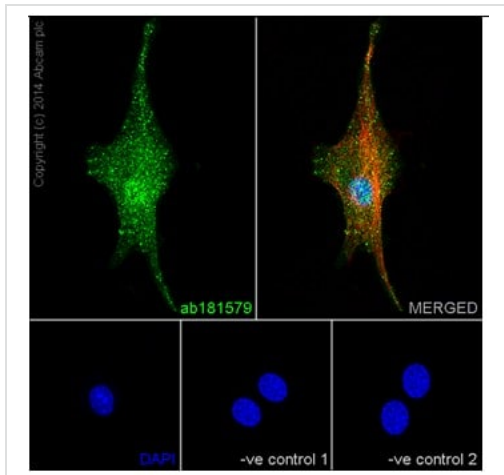
**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 34 kDa

Observed band size: The 35kDa band is the pro-caspase 7; 32kDa band is the N-terminal propeptide cleaved caspase 7; the 27kDa band is the truncated form and the 11kDa band is Caspase 7 subunit p11.

Lanes 1-4 were from the same blot; the exposure time for lanes 1-3 is 1 min and for lane 4 is 2 min.

Blocking/Dilution buffer: 5% NFDM/TBST.



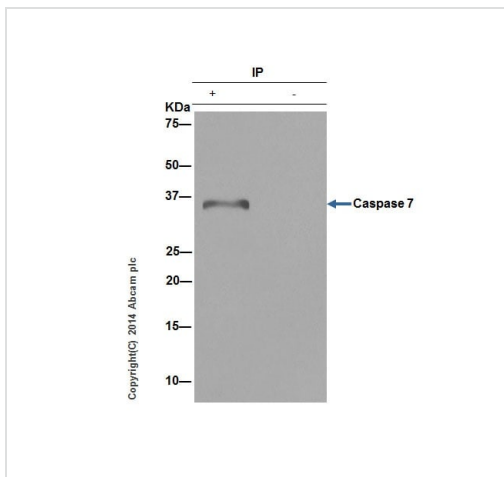
Immunocytochemistry/ Immunofluorescence - Anti-Caspase-7 antibody [EPR17029] (ab181579)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized NIH/3T3 (Mouse embryo fibroblast cells) cells labeling Caspase-7 with ab181579 at 1/250 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/400 dilution (green). Cytoplasm and nuclear staining on NIH/3T3 cell line is observed. The nuclear counter stain is DAPI (blue). Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/500 dilution and **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution (red).

The negative controls are as follows:

1. ab181579 at 1/250 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution.
2. **ab7291** (anti-Tubulin mouse mAb) at 1/500 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/400 dilution.

Please see Pubmed IDs: 22464733 and 11829465 for further information on Caspase-7 localization.



Immunoprecipitation - Anti-Caspase-7 antibody [EPR17029] (ab181579)


Caspase-7 was immunoprecipitated from 1mg of NIH/3T3 (Mouse embryo fibroblast cells) with ab181579 at 1/120 dilution. Western blot was performed from the immunoprecipitate using ab181579 at 1/1000 dilution. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500 dilution.

Lane 1: NIH/3T3 whole cell extract. Lane 2: PBS instead of extract.

Blocking/Dilution buffer: 5% NFDm/TBST.

The observed band at 35kDa band is the pro-caspase-7.

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-7 antibody [EPR17029] (ab181579)

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

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