

Anti-Caspase-9 antibody [EPR18868] ab184786

リコンビナント **RabMAb**

★★★★★ **1 Abreviews** **34 References** 画像数 6

製品の概要

製品名	Anti-Caspase-9 antibody [EPR18868]
製品の詳細	Rabbit monoclonal [EPR18868] to Caspase-9
由来種	Rabbit
アプリケーション	適用あり: IP, WB
種交差性	交差種: Mouse, Rat
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: C6 and NIH/3T3 whole cell lysates; Mouse brain, heart and spleen lysates; Rat brain and heart lysates. IP: NIH/3T3 and C6 treated with 1µM staurosporine for 4h whole cell lysates.
特記事項	<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>

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	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR18868
アイソタイプ	IgG

アプリケーション

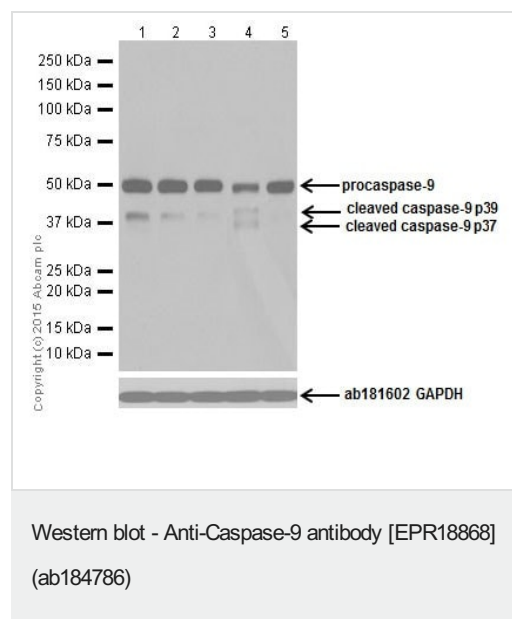
The Abpromise guarantee Abpromise保証は、 次のテスト済みアプリケーションにおけるab184786の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IP		1/30.
WB	★★★★★ (1)	1/1000. Detects a band of approximately 50, 39, 37 kDa (predicted molecular weight: 50, 39, 37 kDa).

ターゲット情報

機能	Involved in the activation cascade of caspases responsible for apoptosis execution. Binding of caspase-9 to Apaf-1 leads to activation of the protease which then cleaves and activates caspase-3. Proteolytically cleaves poly(ADP-ribose) polymerase (PARP). Isoform 2 lacks activity is an dominant-negative inhibitor of caspase-9.
組織特異性	Ubiquitous, with highest expression in the heart, moderate expression in liver, skeletal muscle, and pancreas. Low levels in all other tissues. Within the heart, specifically expressed in myocytes.
配列類似性	Belongs to the peptidase C14A family. Contains 1 CARD domain.
発生段階	Expressed at low levels in fetal heart, at moderate levels in neonate heart, and at high levels in adult heart.
翻訳後修飾	Cleavages at Asp-315 by granzyme B and at Asp-330 by caspase-3 generate the two active subunits. Caspase-8 and -10 can also be involved in these processing events.

画像



All lanes : Anti-Caspase-9 antibody [EPR18868] (ab184786) at 1/1000 dilution

Lane 1 : Untreated C6 (Rat glial tumor cells) whole cell lysate

Lane 2 : C6 whole cell lysate treated with 50 μ m Z-VAD-FMK for 0.5 hour

Lane 3 : C6 whole cell lysate treated with 50 μ m Z-VAD-FMK for 1 hour

Lane 4 : C6 whole cell lysate treated with 1 μ m staurosporine for 4 hours

Lane 5 : C6 whole cell lysate treated with 50 μ m Z-VAD-FMK for 1 hour, then treated with 1 μ M staurosporine for 4 hours

Lysates/proteins at 20 μ g per lane.

Secondary

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

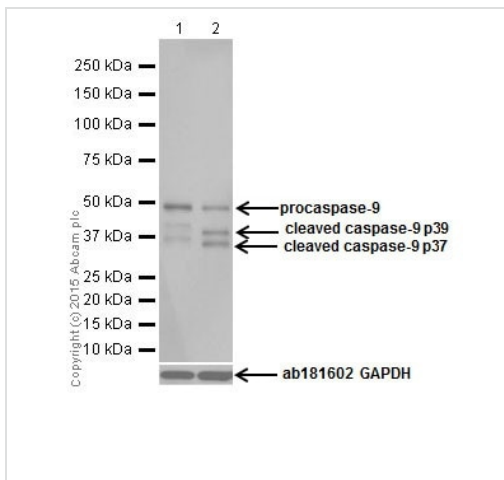
Predicted band size: 50, 39, 37 kDa

Observed band size: 37,39,50 kDa

Exposure time: 10 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.

The p39 and p37 subunits were inhibited when the caspase activity was blocked by the caspase inhibitor, Z-VAD-FMK.



Western blot - Anti-Caspase-9 antibody [EPR18868] (ab184786)

All lanes : Anti-Caspase-9 antibody [EPR18868] (ab184786) at 1/1000 dilution

Lane 1 : Untreated NIH/3T3 (Mouse embryo fibroblast cell line) whole cell lysate

Lane 2 : NIH/3T3 whole cell lysate treated with 1 μ M staurosporine for 4 hours

Lysates/proteins at 20 μ g per lane.

Secondary

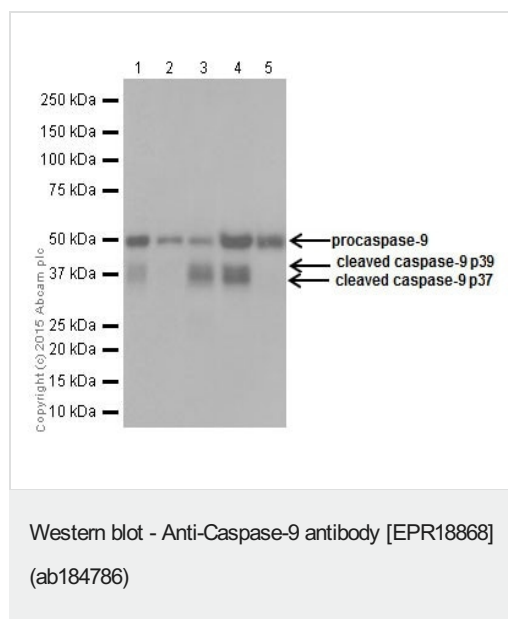
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 50, 39, 37 kDa

Observed band size: 37,39,50 kDa

Exposure time: 15 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.



All lanes : Anti-Caspase-9 antibody [EPR18868] (ab184786) at 1/1000 dilution

Lane 1 : Mouse brain lysate

Lane 2 : Mouse heart lysate

Lane 3 : Mouse spleen lysate

Lane 4 : Rat brain lysate

Lane 5 : Rat heart lysate

Lysates/proteins at 10 µg per lane.

Secondary

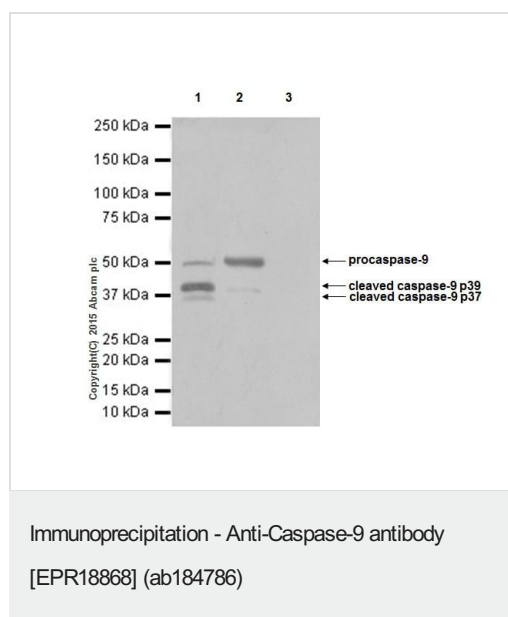
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 50, 39, 37 kDa

Observed band size: 37,39,50 kDa

Exposure time: 20 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.



Caspase 9 was immunoprecipitated from 1mg of NIH/3T3 whole cell lysate (Mouse embryo fibroblast cells) treated with 1µM staurosporine for 4h with ab184786 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab184786 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

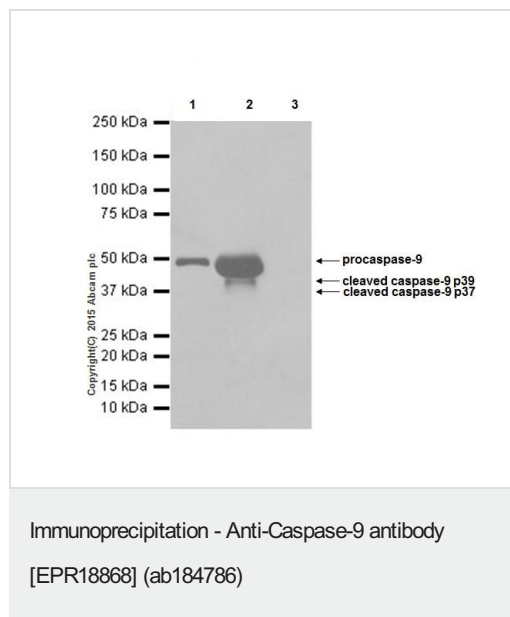
Lane 1: NIH/3T3 whole cell lysate treated with 1µM staurosporine for 4h, 10ug (Input).

Lane 2: ab184786 IP in NIH/3T3 whole cell lysate treated with 1µM staurosporine for 4h.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab184786 in NIH/3T3 whole cell lysate treated with 1µM staurosporine for 4h. Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 10 seconds.

The product has better affinity to procaspase-9. The cleaved form p37 could not be observed even with 3 minutes exposure time.



Caspase 9 was immunoprecipitated from 1mg of C6 whole cell lysate (Rat glial tumor cells) treated with 1μM staurosporine for 4h with ab184786 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab184786 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10000 dilution.

Lane 1: C6 whole cell lysate treated with 1μM staurosporine for 4h, 10ug (Input).

Lane 2: ab184786 IP in C6 whole cell lysate treated with 1μM staurosporine for 4h.





Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab184786 in C6 whole cell lysate treated with 1μM staurosporine for 4h.

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

Exposure time: 3 seconds.

The product has better affinity to procaspase-9. The cleaved form p37 could be observed with longer exposure time.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-Caspase-9 antibody [EPR18868] (ab184786)

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