

Anti-Caspase-9 antibody [E84] ab32068

KO 評価済 リコンビナント RabMAb

15 References 画像数 5

製品の概要

製品名	Anti-Caspase-9 antibody [E84]
製品の詳細	Rabbit monoclonal [E84] to Caspase-9
由来種	Rabbit
アプリケーション	適用あり: WB, IHC-P 適用なし: ICC/IF or IP
種交差性	交差種: Human
免疫原	Synthetic peptide within Human Caspase-9 aa 1-100 (N terminal). The exact sequence is proprietary.
ポジティブ・コントロール	Jurkat cell lysate
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> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 49% PBS, 50% 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 E84
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ab32068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
WB		1/2000. Detects a band of approximately 46 kDa (predicted molecular weight: 46 kDa).
IHC-P		1/25. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

追加情報 Is unsuitable for ICC/IF or IP.

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.

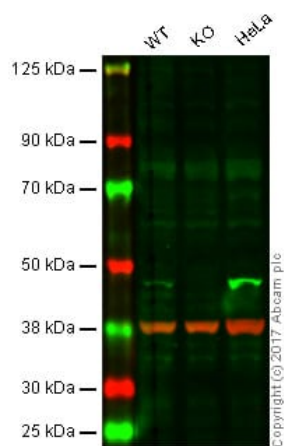
組織特異性 Ubiquitous, with highest expression in the heart, moderate expression in liver, skeletal muscle, and pancreas. Low levels in all other tissues. Within the heart, specifically expressed in myocytes.

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



Western blot - Anti-Caspase-9 antibody [E84]
(ab32068)

Lanes:

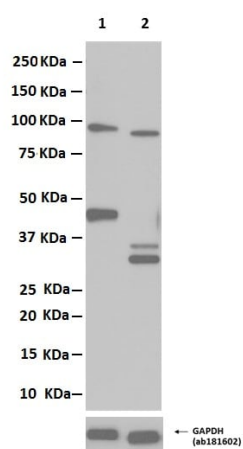
Lane 1: Wild-type HAP1 whole cell lysate (40 µg).

Lane 2: CASP9 knockout HAP1 whole cell lysate (40µg).

Lane 3: HeLa whole cell lysate (40 µg).

Lanes 1 - 3 Merged signal (red and green). Green - ab32068 observed at 45 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab32068 was shown to specifically recognize CASP9 in wild-type HAP1 cells along with additional cross-reactive bands. No band was observed when CASP9 knockout samples were examined. Wild-type and CASP9 knockout samples were subjected to SDS-PAGE. Ab32068 and **ab8245** (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/500 dilution and 1/10,000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/10,000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Caspase-9 antibody [E84]
(ab32068)

All lanes : Anti-Caspase-9 antibody [E84] (ab32068) at 1/1000 dilution

Lane 1 : Untreated HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 2 : HeLa treated with staurosporine 1µM for 4 hours whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

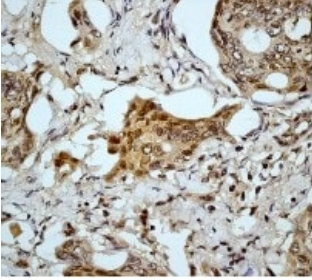
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 46 kDa

Additional bands at: 35 kDa, 37 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 3 minutes

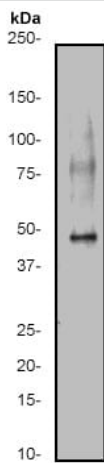
Blocking/dilution buffer: 5% NFDm/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Caspase-9 antibody [E84] (ab32068)

Immunohistochemical analysis of paraffin-embedded human colon adenocarcinoma using anti-Pro-Caspase-9 RabMAb (ab32068).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-Caspase-9 antibody [E84] (ab32068)

Anti-Caspase-9 antibody [E84] (ab32068) at 1/2000 dilution + Jurkat cell lysate at 10 µg

Predicted band size: 46 kDa

Observed band size: 46 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-Caspase-9 antibody [E84] (ab32068)

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