

Product datasheet

Anti-Caspase-8 antibody [E7] ab32397

KO 評価済 リコンビナント RabMAb

★★★★★ 1 Abreviews 8 References 画像数 4

製品の概要

製品名	Anti-Caspase-8 antibody [E7]
製品の詳細	Rabbit monoclonal [E7] to Caspase-8
由来種	Rabbit
特異性	The antibody should recognize both pro-form (55kDa) and p18 cleaved-form of Caspase-8.
アプリケーション	適用あり: WB, ICC/IF 適用なし: Flow Cyt
種交差性	交差種: Human
免疫原	Synthetic peptide within Human Caspase-8 aa 200-300 (N terminal). The exact sequence is proprietary. Database link: Q14790
ポジティブ・コントロール	Hela cell lysate
特記事項	Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

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

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

This product is a recombinant rabbit monoclonal antibody.

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: PBS, 40% Glycerol, 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	E7
アイソタイプ	IgG

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab32397** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB	★★★★★	1/1000 - 1/5000. Detects a band of approximately 55 kDa (predicted molecular weight: 55 kDa). For unpurified use at 1/500.
ICC/IF		1/150.

追加情報 Is unsuitable for Flow Cyt.

ターゲット情報

機能	Most upstream protease of the activation cascade of caspases responsible for the TNFRSF6/FAS mediated and TNFRSF1A induced cell death. Binding to the adapter molecule FADD recruits it to either receptor. The resulting aggregate called death-inducing signaling complex (DISC) performs CASP8 proteolytic activation. The active dimeric enzyme is then liberated from the DISC and free to activate downstream apoptotic proteases. Proteolytic fragments of the N-terminal propeptide (termed CAP3, CAP5 and CAP6) are likely retained in the DISC. Cleaves and activates CASP3, CASP4, CASP6, CASP7, CASP9 and CASP10. May participate in the GZMB apoptotic pathways. Cleaves ADPRT. Hydrolyzes the small-molecule substrate, Ac-Asp-Glu-Val-Asp--AMC. Likely target for the cowpox virus CRMA death inhibitory protein. Isoform 5, isoform 6, isoform 7 and isoform 8 lack the catalytic site and may interfere with the pro-apoptotic activity of the complex.
組織特異性	Isoform 1, isoform 5 and isoform 7 are expressed in a wide variety of tissues. Highest expression in peripheral blood leukocytes, spleen, thymus and liver. Barely detectable in brain, testis and skeletal muscle.
関連疾患	Defects in CASP8 are the cause of caspase-8 deficiency (CASP8D) [MIM:607271]. CASP8D is a disorder resembling autoimmune lymphoproliferative syndrome (ALPS). It is characterized by lymphadenopathy, splenomegaly, and defective CD95-induced apoptosis of peripheral blood lymphocytes (PBLs). It leads to defects in activation of T-lymphocytes, B-lymphocytes, and natural killer cells leading to immunodeficiency characterized by recurrent sinopulmonary and herpes simplex virus infections and poor responses to immunization.
配列類似性	Belongs to the peptidase C14A family. Contains 2 DED (death effector) domains.
ドメイン	Isoform 9 contains a N-terminal extension that is required for interaction with the BCAP31 complex.

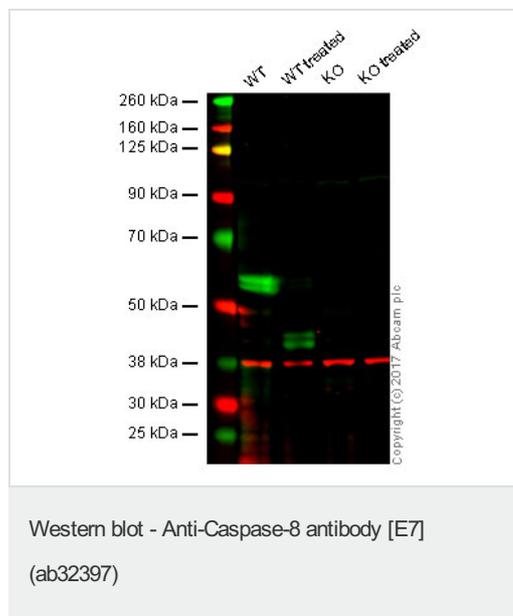
翻訳後修飾

Generation of the subunits requires association with the death-inducing signaling complex (DISC), whereas additional processing is likely due to the autocatalytic activity of the activated protease. GZMB and CASP10 can be involved in these processing events. Phosphorylated upon DNA damage, probably by ATM or ATR.

細胞内局在

Cytoplasm.

画像



Lane 1: Wild type HAP1 whole cell lysate (20 μ g)

Lane 2: HAP1 + Staurosporin knockout HAP1 whole cell lysate (20 μ g)

Lane 3: CASP8 whole cell lysate (20 μ g)

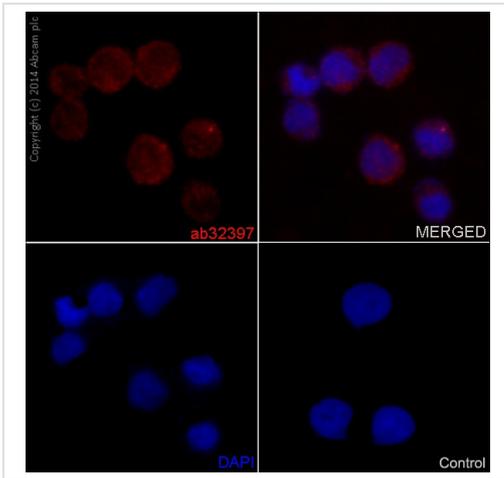
Lane 4: CASP8 + Staurosporin whole cell lysate (20 μ g)

Lanes 1 - 4: Merged signal (red and green).

Green - ab32397 observed at 55, 43/41 kDa.

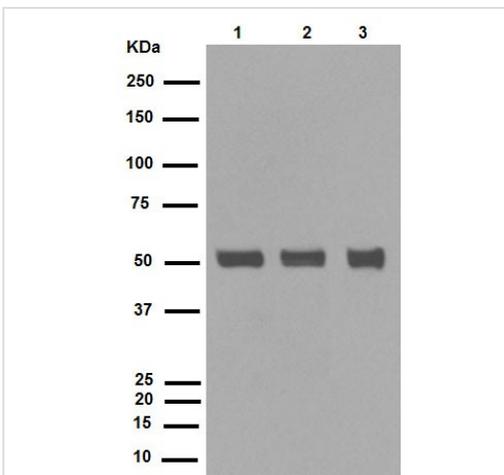
Red - loading control, ab9484, observed at 37 kDa.

ab32397 was shown to specifically react with HAP1 + Staurosporin when HAP1 + Staurosporin knockout samples were used. Wild-type and HAP1 + Staurosporin knockout samples were subjected to SDS-PAGE. Ab32397 and ab9484 (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 500 dilution and 1/20000 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 1/20000 dilution for 1 hour at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-Caspase-8 antibody [E7] (ab32397)

ab32394 staining Caspase-8 in the K562 cell line by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100. Samples were incubated with primary antibody (1/150). **ab150078**(1/500) an anti-rabbit Alexa Fluor®555 was used as the secondary antibody. Nuclei were counterstained with DAPI.



Western blot - Anti-Caspase-8 antibody [E7] (ab32397)

All lanes : Anti-Caspase-8 antibody [E7] (ab32397) at 1/1000 dilution

Lane 1 : Jurkat cell lysate

Lane 2 : HeLa cell lysate

Lane 3 : IM-9 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

Predicted band size: 55 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.

kDa
150-
100-
75-
50-
37-
25-
15-
10-



Anti-Caspase-8 antibody [E7] (ab32397) at
1/500 dilution (unpurified) + 10ug HeLa cell
lysate.

Predicted band size: 55 kDa

Observed band size: 55 kDa

Western blot - Anti-Caspase-8 antibody [E7]
(ab32397)

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

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