abcam

Product datasheet

Anti-Caspase-8 antibody [E6] ab32125

KO 評価済 リコンビナント RabMAb

3 Abreviews 26 References 画像数 4

製品の概要

製品名	Anti-Caspase-8 antibody [E6]
製品の詳細	Rabbit monoclonal [E6] to Caspase-8
由来種	Rabbit
特異性	ab32125 should recognize all splice isoforms of Caspase-8.
アプリケーション	**適用あり:** WB
種交差性	**交差種:** Human
免疫原	Synthetic peptide within Human Caspase-8 aa 1-100 (N terminal). The exact sequence is proprietary. Database link: **Q14790**
エピトープ	ab32125 reacts with an epitope located in the N terminal region of caspase-8.
ポジティブ・コントロール	WB: HeLa, SH-SY5Y, Jurkat (**ab7899**) and HAP1 whole cell lysates.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

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	E6
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ab32125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。

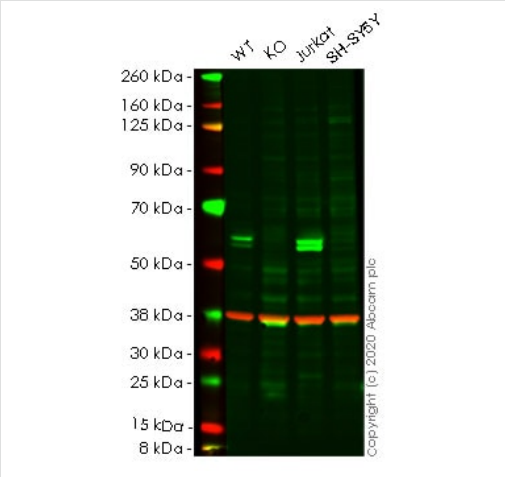
アプリケーション	Abreviews	特記事項
WB	★★★☆☆ (3)	1/3000. Detects a band of approximately 55 kDa (predicted molecular weight: 55 kDa).

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



Western blot - Anti-Caspase-8 antibody [E6] (ab32125)

All lanes : Anti-Caspase-8 antibody [E6] (ab32125) at 1/3000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : CASP8 knockout HeLa cell lysate
Lane 3 : Jurkat cell lysate
Lane 4 : SH-SY5Y cell lysate

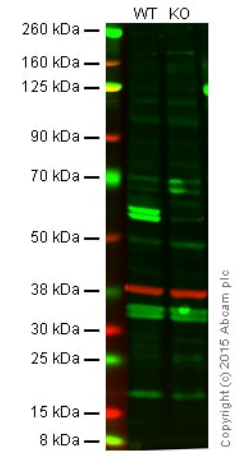
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 55 kDa
Observed band size: 55 kDa

Lanes 1- 4: Merged signal (red and green). Green - ab32125 observed at 55 kDa. Red - Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) observed at 37 kDa.

ab32125 was shown to react with Caspase-8 in wild-type HeLa cells in western blot. Loss of signal was observed when knockout cell line **ab264958** (knockout cell lysate **ab256857**) was used. Wild-type HeLa and CASP8 knockout HeLa cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. ab32125 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) overnight at 4°C at a 1 in 3000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye®800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye®680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Caspase-8 antibody [E6] (ab32125)

All lanes : Anti-Caspase-8 antibody [E6] (ab32125)

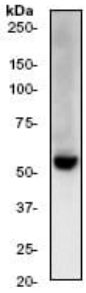
Lane 1 : Wild-type HAP1 cell lysate
Lane 2 : Caspase-8 knockout HAP1 cell lysate

Lysates/proteins at 20 µg per lane.

Predicted band size: 55 kDa

Lanes 1 and 2: Merged signal (red and green). Green - ab32125 observed at 55 kDa. Red - loading control, **ab8226**, observed at 42 kDa.

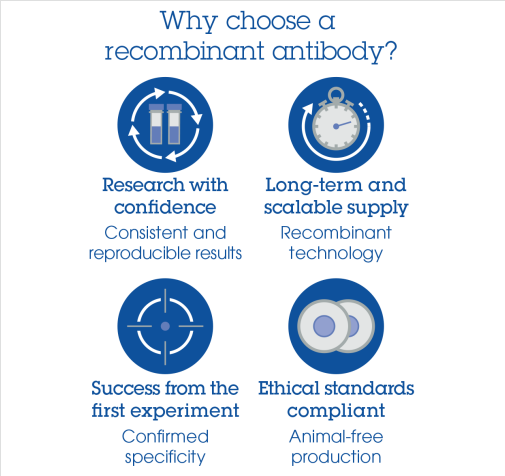
ab32125 was shown to recognize Caspase-8 when Caspase-8 knockout samples were used, along with additional cross-reactive bands. Wild-type and Caspase-8 knockout samples were subjected to SDS-PAGE. ab32125 and **ab8226** (loading control to beta actin) were diluted 1/3000 and 1/1000 and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1/10 000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-Caspase-8 antibody [E6] (ab32125)

Anti-Caspase-8 antibody [E6] (ab32125) at 1/3000 dilution + Jurkat cell lysate

Predicted band size: 55 kDa
Observed band size: 55 kDa



Anti-Caspase-8 antibody [E6] (ab32125)

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