

## Product datasheet

### Anti-Caspase-8 antibody [E6] ab32125

KO VALIDATED

Recombinant

RabMAb

★★★★☆ 3 Abreviews 26 References 4 Images

#### Overview

Product name	Anti-Caspase-8 antibody [E6]
Description	Rabbit monoclonal [E6] to Caspase-8
Host species	Rabbit
Specificity	ab32125 should recognize all splice isoforms of Caspase-8.
Tested applications	<b>Suitable for:</b> WB
Species reactivity	<b>Reacts with:</b> Human
Immunogen	Synthetic peptide within Human Caspase-8 aa 1-100 (N terminal). The exact sequence is proprietary. Database link: <a href="#">Q14790</a>
Epitope	ab32125 reacts with an epitope located in the N terminal region of caspase-8.
Positive control	WB: HeLa, SH-SY5Y, Jurkat ( <a href="#">ab7899</a> ) and HAP1 whole cell lysates.
General notes	<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> <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>

#### Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), 0.05% BSA

<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	E6
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab32125 in the following tested applications.

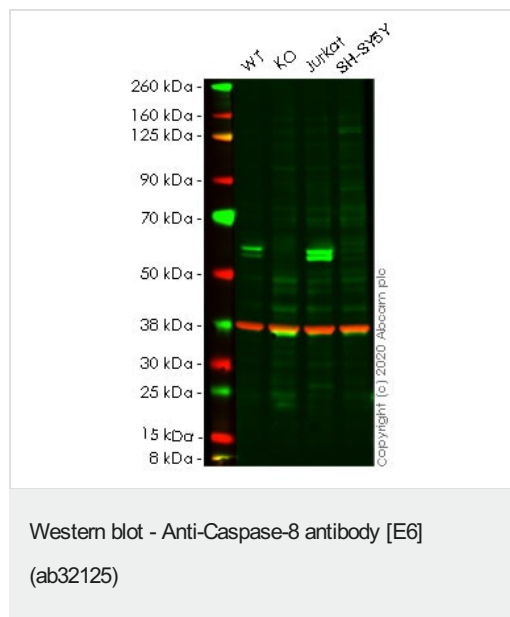
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>	★★★★★ (3)	1/3000. Detects a band of approximately 55 kDa (predicted molecular weight: 55 kDa).

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	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.
<b>Involvement in disease</b>	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.
<b>Sequence similarities</b>	Belongs to the peptidase C14A family. Contains 2 DED (death effector) domains.
<b>Domain</b>	Isoform 9 contains a N-terminal extension that is required for interaction with the BCAP31 complex.
<b>Post-translational modifications</b>	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.

## Images



**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.

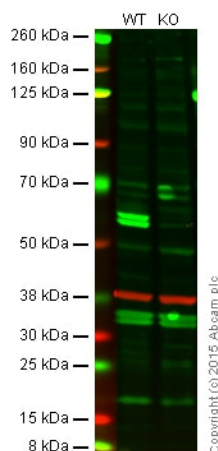
Performed under reducing conditions.

**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

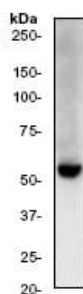
**Lane 2 :** Caspase-8 knockout HAP1 cell lysate

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

### 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-8 antibody [E6] (ab32125)

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

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