

Product datasheet

Anti-Pro Caspase-8 antibody [EPR162] ab108333

KO VALIDATED Recombinant RabMAb[®]

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Overview

Product name	Anti-Pro Caspase-8 antibody [EPR162]
Description	Rabbit monoclonal [EPR162] to Pro Caspase-8
Host species	Rabbit
Specificity	Theoretically, ab108333 should recognize p55/54, p43/41 and p18. However, in our internal tests, it only recognized pro caspase 8. We tested it side by side with ab32397 . Both antibodies are KO validated, and ab32397 recognizes pro-caspase 8 and cleavage caspase 8.
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt or IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human Pro Caspase-8 aa 350-450 (internal sequence). The exact sequence is proprietary. Database link: Q14790
Positive control	Jurkat, IM9, HepG2, HeLa, and HL60 cell lysates; Human tonsil tissue and Human hepatocellular carcinoma tissue; HeLa cells.
General notes	

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

This product is a [recombinant rabbit monoclonal antibody](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol, 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal

Clone number EPR162

Isotype IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab108333** 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
WB		1/1000 - 1/10000. Detects a band of approximately 55 kDa (predicted molecular weight: 55 kDa).
IHC-P		1/100 - 1/250. Antigen retrieval is recommended.

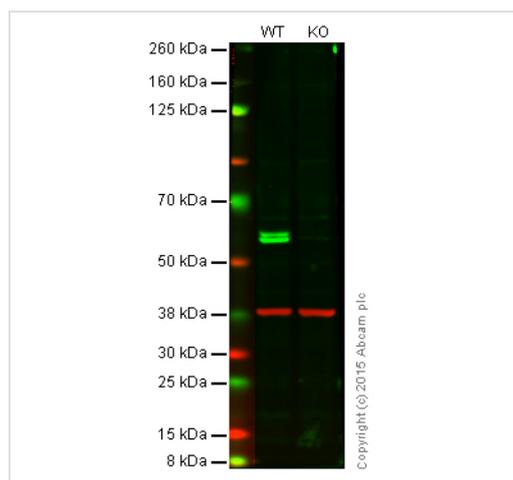
Application notes Is unsuitable for Flow Cyt or IP.

Target

Relevance

Disease: 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.

Images



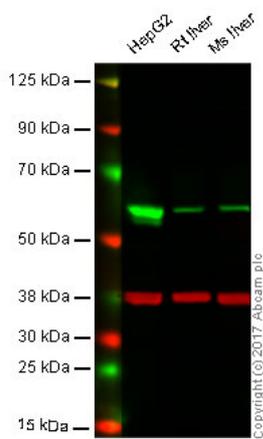
Western blot - Anti-Pro Caspase-8 antibody [EPR162] (ab108333)

Lane 1: Wild-type HAP1 cell lysate (20 µg)

Lane 2: Pro Caspase-8 knockout HAP1 cell lysate (20 µg)

Lanes 1 and 2: Merged signal (red and green). Green - ab108333 observed at 55 kDa. Red - loading control, [ab8245](#), observed at 37 kDa.

ab108333 was shown to specifically react with Caspase-8 when Caspase-8 knockout samples were used. Wild-type and Pro Caspase-8 knockout samples were subjected to SDS-PAGE. ab108333 and [ab8245](#) (loading control to GAPDH) were both diluted 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 [EPR162] (ab108333)

All lanes : Anti-Pro Caspase-8 antibody [EPR162] (ab108333) at 1/1000 dilution

Lane 1 : HepG2 whole cell lysate

Lane 2 : Rat liver tissue lysate

Lane 3 : Mouse liver tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) at 1/10000 dilution

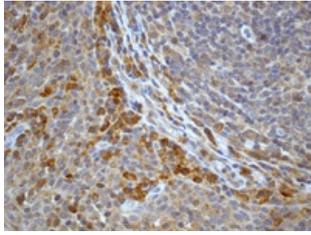
Performed under reducing conditions.

Predicted band size: 55 kDa

Observed band size: 55 kDa

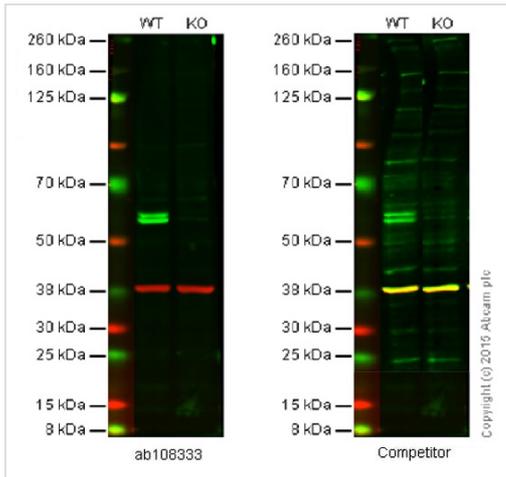
Lanes 1 - 3: Merged signal (red and green). Green - ab108333 observed at 55 kDa. Red - loading control, ab8245, observed at 37 kDa.

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using Licor blocking buffer before being incubated with ab108333 and ab8245 (loading control) overnight at 4°C. Antibody binding was detected using Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (ab216776) at a 1:10000 dilution for 1hr at room temperature and then imaged.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Caspase-8 antibody [EPR162] (ab108333)

ab108333, at 1/100 dilution, staining Pro Caspase-8 in paraffin-embedded human tonsil tissue by Immunohistochemistry.



Western blot - Anti-Caspase-8 antibody [EPR162] (ab108333)

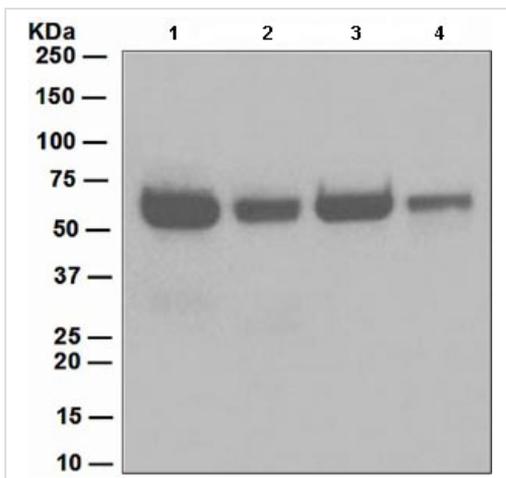
Lane 1: Wild-type HAP1 cell lysate (20 µg)

Lane 2: Pro Caspase-8 knockout HAP1 cell lysate (20 µg)

Lanes 1 and 2: Merged signal (red and green).

Green - target observed at 55 kDa. Red - loading control, [ab8245](#), observed at 37 kDa.

This western blot image is a comparison between ab108333 and a competitor's top cited mouse monoclonal antibody.



Western blot - Anti-Caspase-8 antibody [EPR162] (ab108333)

All lanes : Anti-Pro Caspase-8 antibody [EPR162] (ab108333) at 1/1000 dilution

Lane 1 : Jurkat cell lysate

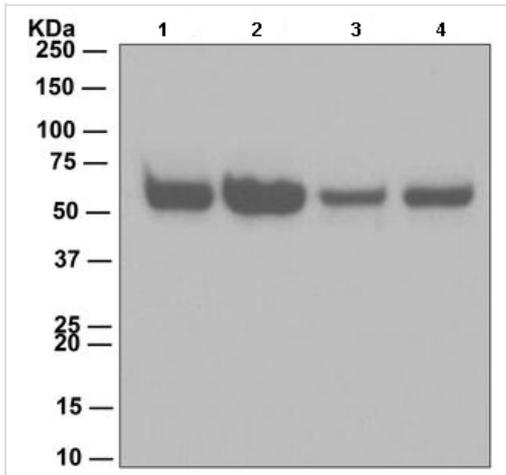
Lane 2 : IM9 cell lysate

Lane 3 : HepG2 cell lysate

Lane 4 : HL60 cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 55 kDa



Western blot - Anti-Caspase-8 antibody [EPR162] (ab108333)

All lanes : Anti-Pro Caspase-8 antibody [EPR162] (ab108333) at 1/1000 dilution

Lane 1 : Jurkat cell lysate, treated with etoposide

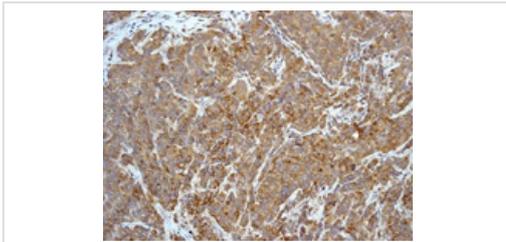
Lane 2 : Jurkat cell lysate

Lane 3 : HeLa cell lysate, treated staurosporine

Lane 4 : HeLa cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 55 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Caspase-8 antibody [EPR162] (ab108333)

ab108333, at 1/100 dilution, staining Pro Caspase-8 in paraffin-embedded human hepatocellular carcinoma by Immunohistochemistry.

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