

## Product datasheet

### Anti-pro Caspase-7 antibody [Y33] ab32067

KO VALIDATED

Recombinant

RabMAb

[2 References](#) [4 Images](#)

#### Overview

Product name	Anti-pro Caspase-7 antibody [Y33]
Description	Rabbit monoclonal [Y33] to pro Caspase-7
Host species	Rabbit
Specificity	The antibody only recognizes the pro-form of Caspase-7. It does not react with the cleaved forms (active enzyme) of Caspase-7.
Tested applications	<b>Suitable for:</b> WB, IHC-P <b>Unsuitable for:</b> Flow Cyt or IP
Species reactivity	<b>Reacts with:</b> Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Jurkat cell lysate and human lung squamous carcinoma.
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
Purity	Protein A purified

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	Y33
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab32067 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

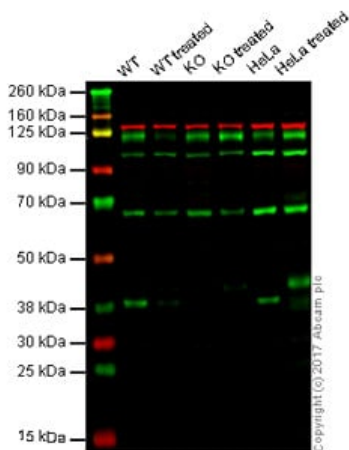
Application	Abreviews	Notes
<b>WB</b>		1/1000. Detects a band of approximately 34 kDa (predicted molecular weight: 34 kDa).
<b>IHC-P</b>		1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

**Application notes** Is unsuitable for Flow Cyt or IP.

## Target

<b>Function</b>	Involved in the activation cascade of caspases responsible for apoptosis execution. Cleaves and activates sterol regulatory element binding proteins (SREBPs). Proteolytically cleaves poly(ADP-ribose) polymerase (PARP) at a '216-Asp-Gly-217' bond. Overexpression promotes programmed cell death.
<b>Tissue specificity</b>	Highly expressed in lung, skeletal muscle, liver, kidney, spleen and heart, and moderately in testis. No expression in the brain.
<b>Sequence similarities</b>	Belongs to the peptidase C14A family.
<b>Post-translational modifications</b>	Cleavages by granzyme B or caspase-10 generate the two active subunits. Propeptide domains can also be cleaved efficiently by caspase-3. Active heterodimers between the small subunit of caspase-7 and the large subunit of caspase-3, and vice versa, also occur.
<b>Cellular localization</b>	Cytoplasm.

## Images



Western blot - Anti-pro Caspase-7 antibody [Y33]  
(ab32067)

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

**Lane 2:** Staurosporin treated HAP1 whole cell lysate (20 µg)

**Lane 3:** CASP7 knockout HAP1 whole cell lysate (20 µg)

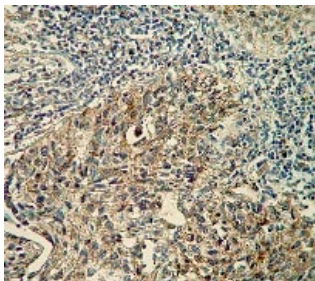
**Lane 4:** Staurosporin treated CASP7 knockout HAP1 whole cell lysate (20 µg)

**Lane 5:** HeLa whole cell lysate (20 µg)

**Lane 6:** Staurosporin treated HeLa whole cell lysate (20 µg)

**Lanes 1 - 6:** Merged signal (red and green). Green - ab32067 observed at 38 kDa. Red - loading control, **ab18058**, observed at 130 kDa.

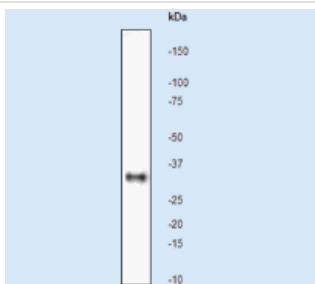
ab32067 was shown to recognize pro Caspase 7 when HAP1 + pro Caspase 7 knockout samples were used, along with additional cross-reactive bands. Wild-type and the pro Caspase 7 knockout samples were subjected to SDS-PAGE. Ab32067 and **ab18058** (Mouse anti-Vinculin loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/10000 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-pro Caspase-7 antibody [Y33] (ab32067)

Immunohistochemical analysis of paraffin-embedded human lung squamous carcinoma using ab32067 at 1/50 dilution.

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



Western blot - Anti-pro Caspase-7 antibody [Y33] (ab32067)

Anti-pro Caspase-7 antibody [Y33] (ab32067) at 1/1000 dilution + Jurkat cell lysate

**Predicted band size:** 34 kDa

**Observed band size:** 34 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-pro Caspase-7 antibody [Y33] (ab32067)

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

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