

# Anti-pro Caspase-7 antibody [Y33] - BSA and Azide free ab247219

**KO VALIDATED** Recombinant RabMAB

4 Images

### Overview

<b>Product name</b>	Anti-pro Caspase-7 antibody [Y33] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [Y33] to pro Caspase-7 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Specificity</b>	The antibody only recognizes the pro-form of Caspase-7. It does not react with the cleaved forms (active enzyme) of Caspase-7.
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB <b>Unsuitable for:</b> Flow Cyt or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>General notes</b>	<p>ab247219 is the carrier-free version of <a href="#">ab32067</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <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</p>

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.

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	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 ab247219 in the following tested applications.

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

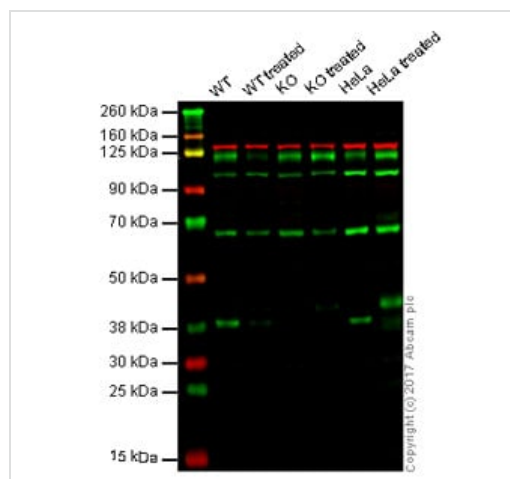
Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 34 kDa (predicted molecular weight: 34 kDa).

**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] - BSA and Azide free (ab247219)

This data was developed using [ab32067](#), the same antibody clone in a different buffer formulation.

**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)

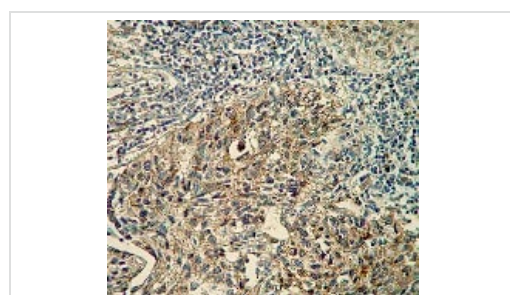
**Lane 4:** Staurosporin treated CASP7 knockout HAP1 whole cell lysate (20 µg)

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

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

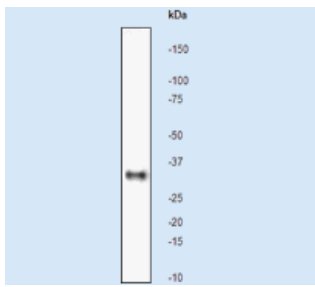
**Lanes 1 - 6:** Merged signal (red and green). Green - [ab32067](#) observed at 38 kDa. Red - loading control, [ab18058](#), observed at 130 kDa.

[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 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] - BSA and Azide free (ab247219)

This data was developed using [ab32067](#), the same antibody clone in a different buffer formulation. 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] - BSA and Azide free (ab247219)





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

**Predicted band size:** 34 kDa

**Observed band size:** 34 kDa

This data was developed using **ab32067**, the same antibody clone in a different buffer formulation.

### Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-pro Caspase-7 antibody [Y33] - BSA and Azide free (ab247219)

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

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