

## Product datasheet

# Anti-pro Caspase 7 antibody [Y33] ab32067

敲除
验证
重组
RabMAb

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### 概述

<b>产品名称</b>	Anti-pro Caspase 7抗体[Y33]
<b>描述</b>	兔单克隆抗体[Y33] to pro Caspase 7
<b>宿主</b>	Rabbit
<b>特异性</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>经测试应用</b>	<b>适用于:</b> WB, IHC-P, ICC/IF <b>不适用于:</b> Flow Cyt or IP
<b>种属反应性</b>	<b>与反应:</b> Human
<b>免疫原</b>	Synthetic peptide within Human pro Caspase 7 (N terminal). The exact sequence is proprietary.
<b>阳性对照</b>	Jurkat cell lysate and human lung squamous carcinoma.
<b>常规说明</b>	Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

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

This product is a recombinant rabbit monoclonal antibody.

### 性能

<b>形式</b>	Liquid
<b>存放说明</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>存储溶液</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 49% PBS, 50% Glycerol, 0.05% BSA
<b>克隆</b>	单克隆
<b>克隆编号</b>	Y33
<b>同种型</b>	IgG

## 应用

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.

应用	Ab评论	说明
WB		1/1000. Detects a band of approximately 34 kDa (predicted molecular weight: 34 kDa).
IHC-P		1/50.
ICC/IF		1/50.

**应用说明** Is unsuitable for Flow Cyt or IP.

## 靶标

**功能** 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.

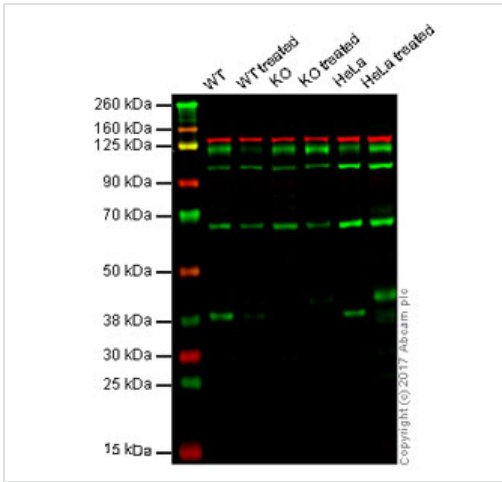
**组织特异性** Highly expressed in lung, skeletal muscle, liver, kidney, spleen and heart, and moderately in testis. No expression in the brain.

**序列相似性** Belongs to the peptidase C14A family.

**翻译后修饰** 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.

**细胞定位** Cytoplasm.

## 图片



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)

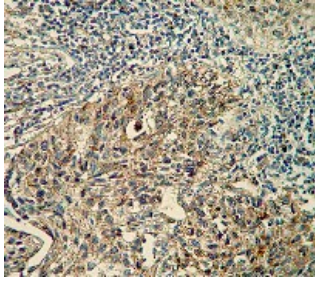
**Lane 4:** Staurosporin treated CASP7 knockout HAP1 whole cell lysate (20 µg)

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

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

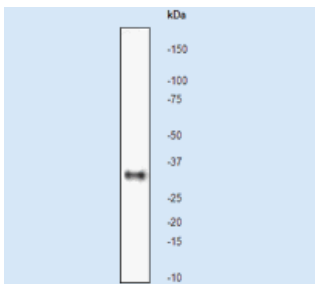
**Lanes 1 - 6:** Merged signal (red and green). Green - ab32067 observed at 38 kDa. Red - loading control, [ab18058](#), observed at 130 kDa.

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 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.



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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - 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

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

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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