

Product datasheet

Anti-pro Caspase 7 antibody [Y33] ab32067

敲除验证
重组
RabMAb

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概述

产品名称	Anti-pro Caspase 7抗体[Y33]
描述	兔单克隆抗体[Y33] to pro Caspase 7
宿主	Rabbit
特异性	The antibody only recognizes the pro-form of Caspase-7. It does not react with the cleaved forms (active enzyme) of Caspase-7.
经测试应用	适用于: WB, IHC-P, ICC/IF 不适用于: Flow Cyt or IP
种属反应性	与反应: Human
免疫原	Synthetic peptide within Human pro Caspase 7 (N terminal). The exact sequence is proprietary.
阳性对照	Jurkat cell lysate and human lung squamous carcinoma.
常规说明	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[®] 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.

性能

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

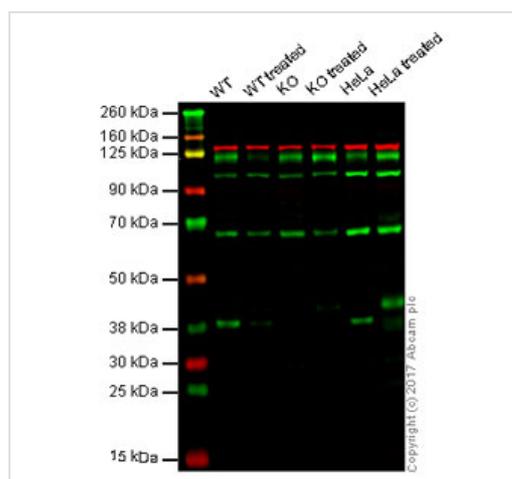
组织特异性 Highly expressed in lung, skeletal muscle, liver, kidney, spleen and heart, and moderately in testis. No expression in the brain.

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 μ g)

Lane 2: Staurosporin treated HAP1 whole cell lysate (20 μ g)

Lane 3: CASP7 knockout HAP1 whole cell lysate (20 μ g)

Lane 4: Staurosporin treated CASP7 knockout HAP1 whole cell lysate (20 μ g)

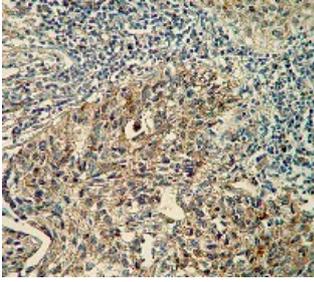
Lane 5: HeLa whole cell lysate (20 μ g)

Lane 6: Staurosporin treated HeLa whole cell lysate (20 μ g)

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

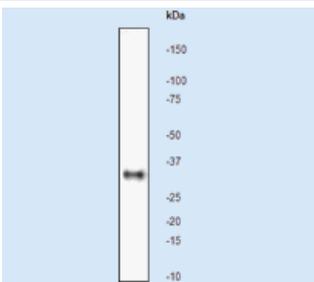
ab32067 was shown to recognize pro Caspase 7 when HAP1 + pro Caspase 7 knockout samples were used, along with additional cross-reactive bands. Wild-type and pro Caspase 7 knockout samples were subjected to SDS-PAGE. Ab32067 and [ab18058](#) (Mouse anti-Vinculin loading control) were incubated overnight 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] (ab32067)

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



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

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