

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 不适用于: Flow Cyt or IP
种属反应性	与反应: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	Jurkat cell lysate and human lung squamous carcinoma.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</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>

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 (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified

克隆	单克隆
克隆编号	Y33
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab32067于以下的经测试应用**

“应用说明”部分下显示的仅为推荐的起始稀释度；实际最佳的稀释度/浓度应由使用者检定。

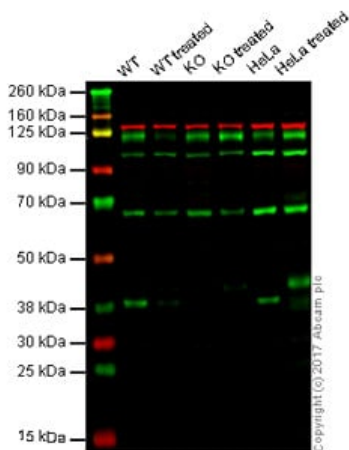
应用	Ab评论	说明
WB		1/1000. Detects a band of approximately 34 kDa (predicted molecular weight: 34 kDa).
IHC-P		1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

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)

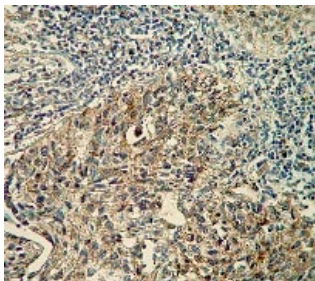
Lane 4: Staurosporin treated CASP7 knockout HAP1 whole cell lysate (20 µg)

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.

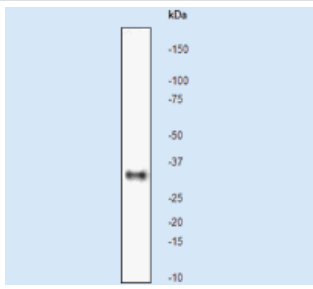
ab32067 was shown to recognize pro Caspase 7 when HAP1 + pro Caspase 7 knockout samples were used, along with additional cross-reactive bands. Wild-type and the pro Caspase 7 knockout samples were subjected to SDS-PAGE. Ab32067 and **ab18058** (Mouse anti-Vinculin loading control) were incubated overnight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



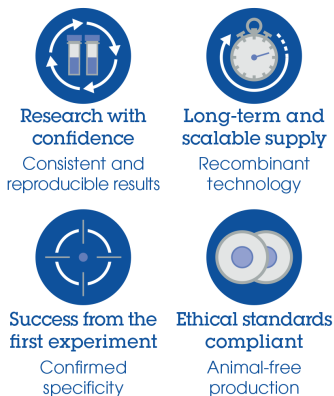
Western blot - Anti-pro Caspase-7 antibody [Y33] (ab32067)

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?



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

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