


# HRP Anti-pro Caspase-3 antibody [E61] ab205733

敲除验证 重组 RabMAb

5 References 3 图像

### 概述

产品名称	HRP Anti-pro Caspase-3抗体[E61]
描述	HRP兔单克隆抗体[E61] to pro Caspase-3
宿主	Rabbit
偶联物	HRP
经测试应用	适用于: IHC-P, WB
种属反应性	与反应: Human 预测可用于: Mouse 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HeLa and wildtype HAP1 (untreated and Stuarosporine treated) whole cell lysates. IHC-P: normal human tonsil tissue sections
常规说明	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> .

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C. Store In the Dark.
存储溶液	pH: 7.40 Preservative: 0.1% Proclin 300 Solution Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	E61
同种型	IgG

### 应用

## The Abpromise guarantee

**Abpromise™** 承诺保证使用 ab205733 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
IHC-P		1/2500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/5000. Detects a band of approximately 35 kDa (predicted molecular weight: 31 kDa).

## 靶标

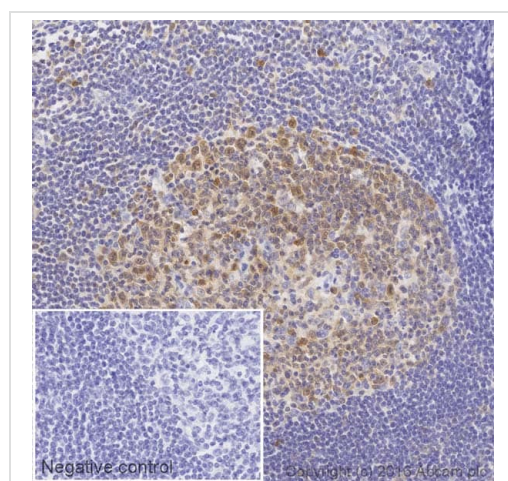
### 相关性

Caspases are a family of cysteine proteases that are key mediators of programmed cell death or apoptosis. The precursor form of all caspases is composed of a prodomain, and large and small catalytic subunits. The active forms of caspases are generated by several stimuli including ligand-receptor interactions, growth factor deprivation and inhibitors of cellular functions. All known caspases require cleavage adjacent to aspartates to liberate one large and one small subunit, which associate into a2b2 tetramer to form the active enzyme. Gene for Caspase 3 also known as Yama, CPP32, and apopain codes for a 32-kDa protein. Caspase 3 cleaves the death substrate poly(ADP-ribose) polymerase (PARP) to a specific 85 kDa form observed during apoptosis and is inhibitable by the CrmA protein. Other Caspase 3 substrates include DNA-PK, actin, GAS2, and procaspase-6, etc. Caspase 3 is activated by cleavage events at Asp-28/Ser-29 (between N-terminal pro-domain) and Asp-175/Ser-176 (between large and small subunits) to generate a large subunit of 17-kDa and a small subunit of 12-kDa.

### 细胞定位

Cytoplasmic

## 图片

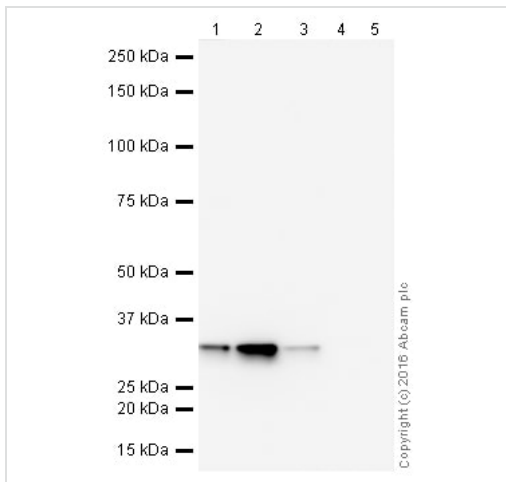


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - HRP Anti-pro Caspase-3 antibody [E61] (ab205733)

IHC image of pro Caspase-3 staining in a section of formalin-fixed paraffin-embedded normal human tonsil\*, performed on a Leica BOND™. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab205733, 1/2500 dilution, for 15 mins at room temperature. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset negative control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

\*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre



Western blot - HRP Anti-pro Caspase-3 antibody [E61] (ab205733)

**All lanes** : HRP Anti-pro Caspase-3 antibody [E61] (ab205733) at 1/5000 dilution

**Lane 1** : HeLa whole cell lysate ([ab150035](#)) at 10 µg

**Lane 2** : Wild-type HAP1 cell lysate at 20 µg

**Lane 3** : Wild-type HAP1 cell lysate Stuarosporine Treated (1µM for 4h) at 20 µg

**Lane 4** : Caspase-3 knockout HAP1 cell lysate at 20 µg

**Lane 5** : Caspase-3 knockout HAP1 cell lysate Stuarosporine Treated (1µM for 4h) at 20 µg

Developed using the ECL technique.

Performed under reducing conditions.





**Predicted band size:** 31 kDa

**Observed band size:** 35 kDa

**Exposure time:** 3 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 3% milk before being incubated with ab205733 overnight at 4°C. Antibody binding was visualised using ECL development solution [ab133406](#).

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>

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

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