



### Anti-Caspase-3 antibody ab49822

★★★★★ [7 Abreviews](#) [388 References](#) [2 图像](#)

#### 概述

产品名称	Anti-Caspase-3抗体
描述	兔多克隆抗体to Caspase-3
宿主	Rabbit
特异性	<p>The immunogen for this product is aa167-175 within the p17 subunit (cleaved caspase) but because this is a poly the epitope will vary and not all batches will be flush against the cleavage site.</p> <p>This means it will detect a number of additional cleavage products in addition to p17:</p> <ul style="list-style-type: none"><li>• P12+17,</li><li>• P12+P17+propeptide 1</li><li>• p12+p17+proppetide 1 + propeptide 2,</li><li>• P17+propeptide 1,</li><li>• p17+propeptide 1 + propeptide 2</li></ul>
经测试应用	<b>适用于:</b> WB, ICC/IF
种属反应性	<b>与反应:</b> Human
免疫原	<p>Synthetic peptide corresponding to Human Caspase-3 aa 150-250 conjugated to keyhole limpet haemocyanin.</p> <p>Database link: <a href="#">P42574</a></p> <p> <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a></p>
阳性对照	ICC/IF: Human epitheloid carcinoma HeLa cell line, treated with staurosporine and WB: Human recombinant caspase-3, active.
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### 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 or -

80°C. Avoid freeze / thaw cycle.

**存储溶液**

pH: 7.40  
Preservative: 0.097% Sodium azide  
Constituent: 0.0268% PBS

**纯度**

IgG fraction

**纯化说明**

Whole antiserum is fractionated and then further purified by ion exchange chromatography. The resulting IgG fraction is further purified by absorption on the Caspase-3 peptide (Human, amino acids 167-178) corresponding to the uncleaved Caspase 3 site sequence.

**克隆**

多克隆

**同种型**

IgG

**应用**

**The Abpromise guarantee**      **Abpromise™**承诺保证使用ab49822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	★★★★☆ (2)	1/500.
ICC/IF		1/1000.

**靶标**

**功能**

Involved in the activation cascade of caspases responsible for apoptosis execution. At the onset of apoptosis it proteolytically cleaves poly(ADP-ribose) polymerase (PARP) at a '216-Asp-Gly-217' bond. Cleaves and activates sterol regulatory element binding proteins (SREBPs) between the basic helix-loop-helix leucine zipper domain and the membrane attachment domain. Cleaves and activates caspase-6, -7 and -9. Involved in the cleavage of huntingtin.

**组织特异性**

Highly expressed in lung, spleen, heart, liver and kidney. Moderate levels in brain and skeletal muscle, and low in testis. Also found in many cell lines, highest expression in cells of the immune system.

**序列相似性**

Belongs to the peptidase C14A family.

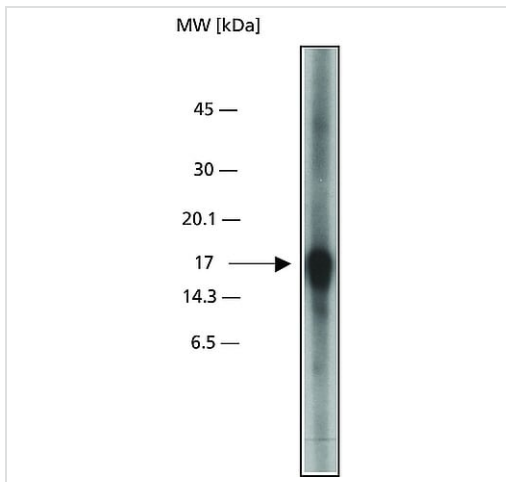
**翻译后修饰**

Cleavage by granzyme B, caspase-6, caspase-8 and caspase-10 generates the two active subunits. Additional processing of the propeptides is likely due to the autocatalytic activity of the activated protease. Active heterodimers between the small subunit of caspase-7 protease and the large subunit of caspase-3 also occur and vice versa.  
S-nitrosylated on its catalytic site cysteine in unstimulated human cell lines and denitrosylated upon activation of the Fas apoptotic pathway, associated with an increase in intracellular caspase activity. Fas therefore activates caspase-3 not only by inducing the cleavage of the caspase zymogen to its active subunits, but also by stimulating the denitrosylation of its active site thiol.

**细胞定位**

Cytoplasm.

**图片**



Western blot - Anti-Caspase-3 antibody (ab49822)

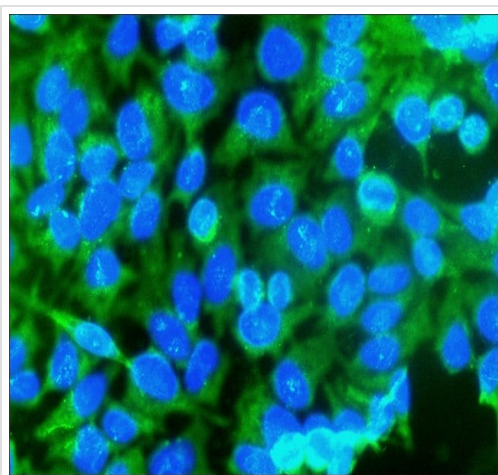
Anti-Caspase-3 antibody (ab49822) at 1/1000 dilution

**Secondary**

Goat Anti-Rabbit IgG, Peroxidase conjugate

Developed using the ECL technique.

**Observed band size:** 17 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Caspase-3 antibody (ab49822)

Immunocytochemistry/ Immunofluorescence analysis of HeLa cells labeling Cleaved Caspase-3 with ab49822 at 1/1000. HeLa cells were treated with 1 µg/mL staurosporine, fixed and permeabilized with Methanol followed by Acetone. Goat Anti-Rabbit IgG (whole molecule)-FITC was used as the secondary antibody. Cells were counterstained with DAPI (blue) to stain nuclei.

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