

# Recombinant mouse Cleaved Caspase-3 protein ab52071

### 描述

产品名称	重组小鼠Cleaved Caspase-3蛋白
生物活性	SPECIFIC ACTIVITY: 300,000 units/mg. One unit of the recombinant caspase-3 is the enzyme activity that cleaves 1 nmol of the caspase substrate DEVD-pNA (pNA: p-nitroaniline) per hour at 37°C.
纯度	> 80 % SDS-PAGE. Affinity Chromatography.
表达系统	Escherichia coli
Accession	<b>P42574</b>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Mouse

### 技术指标

Our **Abpromise guarantee** covers the use of **ab52071** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

形式	Lyophilized
补充说明	This product is manufactured by BioVision, an Abcam company and was previously called 1183 Caspase-3, mouse recombinant. 1183-100 is the same size as the 100 unit size of ab52071.  Cleaved caspase-3 is useful in studying enzyme regulation, determining target substrates, screening caspase inhibitors, or as a positive control in caspase activity assays. We recommend using 1 unit/assay for analyzing caspase activity.

### 制备和贮存

稳定性和存储	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.  Constituents: 0.154% (R*,R*)-1,4-Dimercaptobutan-2,3-diol, 1.19% HEPES, 0.292% EDTA, 5% Glycerol (glycerin, glycerine), 0.29% Sodium chloride, 0.1% CHAPS  This product is an active protein and may elicit a biological response in vivo, handle with caution.
复溶	Reconstitute to 1 unit per µl in PBS containing 15% glycerol.

## 常规信息

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<b>功能</b>	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. Triggers cell adhesion in sympathetic neurons through RET cleavage.
<b>组织特异性</b>	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.
<b>序列相似性</b>	Belongs to the peptidase C14A family.
<b>翻译后修饰</b>	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.
<b>细胞定位</b>	Cytoplasm.

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

## Our Abpromise to you: Quality guaranteed and expert technical support

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

## Terms and conditions

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- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors