

**产品名称: Caspase-6 (13P13) Rabbit Monoclonal Antibody**  
**产品货号: AMRe07974**



## 产品概述 (Summary)

|                        |                                              |
|------------------------|----------------------------------------------|
| 产品名称 (Production Name) | Caspase-6 (13P13) Rabbit Monoclonal Antibody |
| 描述 (Description)       | Recombinant rabbit monoclonal antibody       |
| 宿主 (Host)              | Rabbit                                       |
| 应用 (Application)       | WB,IHC,ICC/IF,IP                             |
| 种属反应性 (Reactivity)     | Human,Mouse,Rat                              |

## 产品性能 (Performance)

|                     |                                                                                                                             |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                                                                |
| 修饰 (Modification)   | Unmodified                                                                                                                  |
| 同种型 (Isotype)       | IgG                                                                                                                         |
| 克隆 (Clonality)      | Monoclonal                                                                                                                  |
| 形式 (Form)           | Liquid                                                                                                                      |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.                                    |
| 储存溶液 (Buffer)       | Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% protective protein. |
| 纯化方式 (Purification) | Affinity purification                                                                                                       |

## 免疫原信息 (Immunogen)

|                        |                                               |
|------------------------|-----------------------------------------------|
| 基因名 (Gene Name)        | CASP6                                         |
| 别名 (Alternative Names) | MCH2; CASP6; Caspase-6;                       |
| 基因 ID (Gene ID)        | 839.0                                         |
| 蛋白 ID (SwissProt ID)   | P55212.A synthetic peptide of human Caspase-6 |

## 产品应用 (Application)

|                          |                                                                   |
|--------------------------|-------------------------------------------------------------------|
| 稀释比 (Dilution Ratio)     | WB 1:500-1:2000,IHC 1:200-1:1000,ICC/IF 1:200-1:500,IP 1:50-1:100 |
| 蛋白分子量 (Molecular Weight) | 33kDa                                                             |

## 研究背景 (Background)

Caspase-6 (Mch2) is one of the major executioner caspases functioning in cellular apoptotic processes. Upon apoptotic

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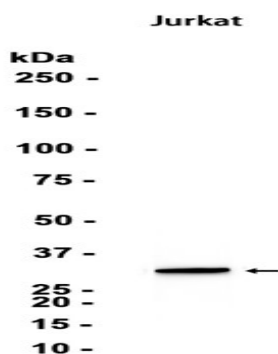


stimulation, initiator caspases such as caspase-9 are cleaved and activated. The activated upstream caspases further process downstream executioner caspases, such as caspase-3 and caspase-6, by cleaving them into large and small subunits, thereby initiating a caspase cascade leading to apoptosis. One of the major targets for caspase-6 is the membrane associated protein lamin A. Cysteine protease that plays essential roles in programmed cell death, axonal degeneration, development and innate immunity (PubMed: [8663580](http://www.uniprot.org/citations/8663580), PubMed: [32298652](http://www.uniprot.org/citations/32298652) target="\_blank">32298652). During apoptosis, localizes in the nucleus and cleaves the nuclear structural protein NUMA1 and lamin A/LMNA thereby inducing nuclear shrinkage and fragmentation (PubMed: [17401638](http://www.uniprot.org/citations/17401638) target="\_blank">17401638, PubMed: [8663580](http://www.uniprot.org/citations/8663580) target="\_blank">8663580, PubMed: [9463409](http://www.uniprot.org/citations/9463409) target="\_blank">9463409). Furthermore, cleaves many transcription factors such as NF-kappa-B and cAMP response element-binding protein/CREBBP (PubMed: [10559921](http://www.uniprot.org/citations/10559921) target="\_blank">10559921, PubMed: [14657026](http://www.uniprot.org/citations/14657026) target="\_blank">14657026). Cleaves phospholipid scramblase proteins XKR4 and XKR9 (By similarity). Plays an essential role in axon degeneration during axon pruning which is the remodeling of axons during neurogenesis but not apoptosis (By similarity). Regulates B-cell programs both during early development and after antigen stimulation (By similarity). In addition, promotes the ZBP1-mediated activation of programmed cell death pathways including pyroptosis, apoptosis, and necroptosis (PANoptosis) and plays an essential role in defense against viruses (PubMed: [32298652](http://www.uniprot.org/citations/32298652) target="\_blank">32298652). Mechanistically, interacts with RIPK3 and enhances the interaction between RIPK3 and ZBP1, leading to ZBP1-mediated inflammasome activation and cell death (PubMed: [32298652](http://www.uniprot.org/citations/32298652) target="\_blank">32298652).

## 研究领域 (Research Area)

Cell Biology

## 图片 (Image Data)



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Western blot analysis of extracts from Jurkat cells using RM4582 at 1:1000.

**注意事项 (Note)**

For research use only .