# Recombinant Caspase 3 Monoclonal Antibody

**Catalog Number:E-AB-81444**

***Note:*** Centrifuge before opening to ensure complete recovery of vial contents.

## Description

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|---|---|
| **Reactivity** | Human,Mouse |
| **Immunogen** | A synthetic peptide of human Caspase 3 |
| **Host** | Rabbit |
| **Isotype** | IgG |
| **Clone** | R06-1B2 |
| **Purification** | Affinity Purified |
| **Conjugation** | Unconjugated |
| **Formulation** | 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% protective protein |

## Applications — Recommended Dilution

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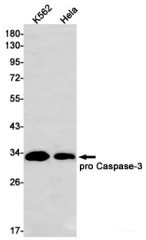
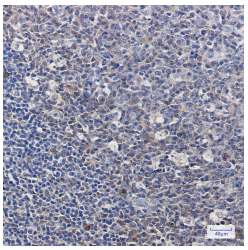
|---|---|
| **WB** | 1:500-1:1000 |
| **IHC** | 1:50-1:100 |

## Data




Western blot detection of Pro Caspase-3 in K562,Hela cell lysates using Caspase-3 Rabbit mAb(1:1000 diluted).Predicted band size:32kDa.Observed band size:32kDa.
**Observed Mw:32kDa**
**Calculated Mw:32kDa**



Immunohistochemistry of pro Caspase 3 in paraffin-embedded Human tonsil using pro Caspase 3 Rabbit mAb at dilution 1:100

## Preparation & Storage

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|---|---|
| **Storage** | Store at -20℃. Avoid freeze / thaw cycles. |

## Background

Caspases, a family of endoproteases, are critical players in cell regulatory networks controlling inflammation and cell death. Initiator caspases (caspase-2, -8, -9, -10, -11, and -12) cleave and activate downstream effector caspases (caspase-3, -6, and -7), which in turn execute apoptosis by cleaving targeted cellular proteins. Caspase 3 (also named CPP32, SCA-1, and Apopain) proteolytically cleaves poly(ADP-ribose) polymerase (PARP) at the beginning of apoptosis. Caspase 3 plays a key role in the activation of sterol regulatory element binding proteins (SREBPs) between the basic helix-loop-helix leucine zipper domain and the membrane attachment domain. Caspase 3 can also form heterocomplex with other proteins and performs MW of 50-70 kDa. This antibody can recognize p17, p19 and p32 of Caspase 3.

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