

## Recombinant Caspase 3 Monoclonal Antibody

catalog number: **E-AB-81444**

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

### Description

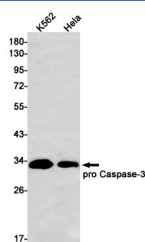
<b>Reactivity</b>	Human;Mouse
<b>Immunogen</b>	A synthetic peptide of human Caspase 3
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Clone</b>	R06-1B2
<b>Purification</b>	Affinity Purified
<b>Buffer</b>	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.05% stabilizer and 0.05% protective protein.

### Applications

### Recommended Dilution

<b>WB</b>	1:500-1:1000
<b>IHC</b>	1:50-1:100

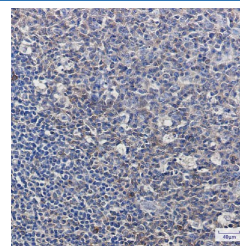
### Data



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

**Observed-MW: 32 kDa**

**Calculated-MW: 32 kDa**



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

### Preparation & Storage

<b>Storage</b>	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
<b>Shipping</b>	The product is shipped with ice pack, upon receipt, store it immediately at the temperature recommended.

### 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.

### For Research Use Only