

## [KD Validated] Anti-CASP3 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

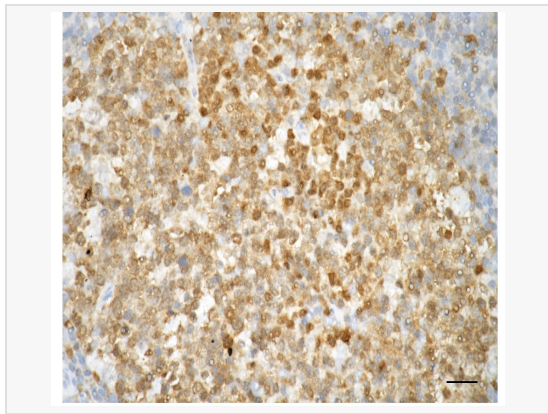
Catalog # R020783

### Product Information

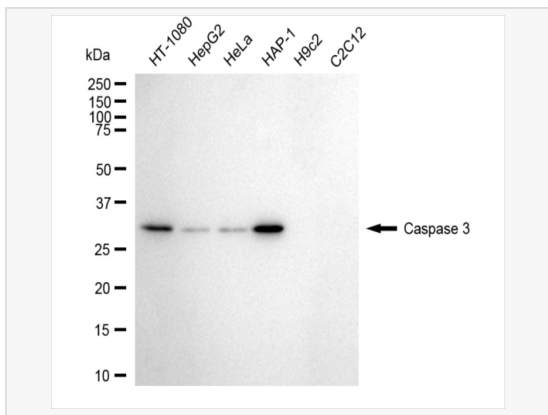
Application	WB, IHC-P/IF (Tissue-P)
Reactivity	Human
Dilution	WB 1:1,000~1:5,000; IHC-P 1:50~1:100
Host	Rabbit
Clonality	Monoclonal
Clone No.	69E96O15
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Caspase-3
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-CASP3 Rabbit mAb [69E96O15] is for research use only and not for use in diagnostic or therapeutic procedures.

### Protein Information

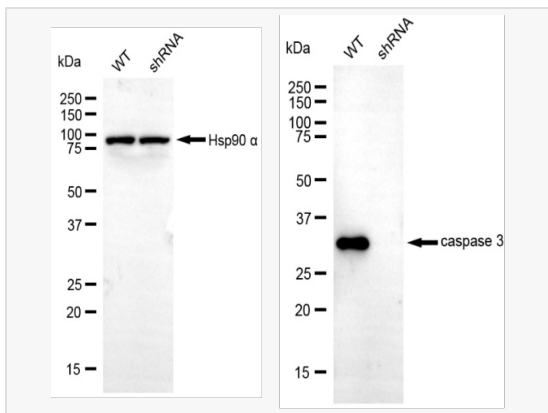
Synonyms	CASP3; Caspase 3; Apopain; CPP32; CPP32B; Caspase 3, Apoptosis-Related Cysteine Peptidase; Caspase 3, Apoptosis-Related Cysteine Protease; SREBP Cleavage Activity 1; Cysteine Protease CPP32; Protein Yama; EC 3.4.22.56; Caspase-3; CASP-3; CPP-32; SCA-1; Yama; PARP Cleavage Protease; Procaspase3; EC 3.4.22.
Calculated MW	Calculated MW: 32 kDa, Observed MW: 32 kDa
Uniprot ID	P42574
Gene ID	836
Background	Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce 2 subunits, large and small, that dimerize to form the active enzyme.



Immunohistochemistry was performed on paraffin-embedded human tonsillitis using caspase 3 antibody (R020783, 1:100). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 μm.



Western blotting analysis using caspase 3 antibody (R020783). Total cell lysates (30 μg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with caspase 3 antibody (R020783, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using caspase 3 antibody (R020783). Caspase 3 expression in wild-type (WT) and caspase 3 (CASP3) shRNA knockdown (KD) HAP-1 cells with 20 μg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with caspase 3 antibody (R020783, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.