

[KD Validated] Anti-CASP3 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

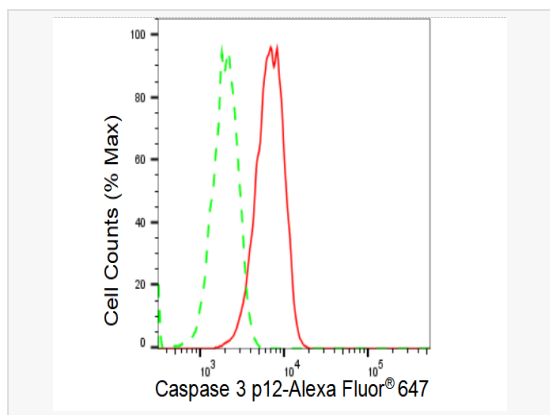
Catalog # R021679

Product Information

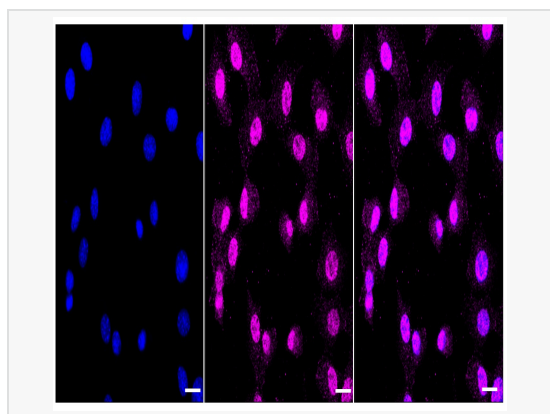
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|-------------|---|
| Application | WB, FC, IF (Cell)/ICC, IHC-P/IF (Tissue-P) |
| Reactivity | Human, Mouse, Rat |
| Dilution | WB 1:1,000~1:5,000; FC 1:200~1:2,000; IF 1:100~1:1,000; IHC-P 1:100~1:200 |
| Host | Rabbit |
| Clonality | Monoclonal |
| Clone No. | 35A60K09 |
| Isotype | IgG |
| Label | Unconjugated |
| Immunogen | A synthesized peptide derived from human Caspase-3 p12 |
| 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 [35A60K09] is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

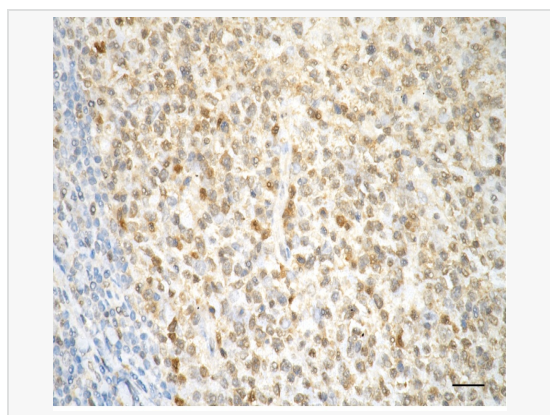
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| Synonyms | CASP3; Caspase 3; CPP32; Apopain; CPP32B; Caspase 3, Apoptosis-Related Cysteine Peptidase; Caspase 3, Apoptosis-Related Cysteine Protease; SREBP Cleavage Activity 1; Cysteine Protease CPP32; Protein Yama; EC 3.4.22.56; Caspase-3; CASP-3; CPP-32; SCA-1; PARP Cleavage Protease; Procaspase3; EC 3.4.22; APOPAIN; Yama; YAMA. |
| Calculated MW | Calculated MW: 32 kDa, Observed MW: 12,29,33 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. |



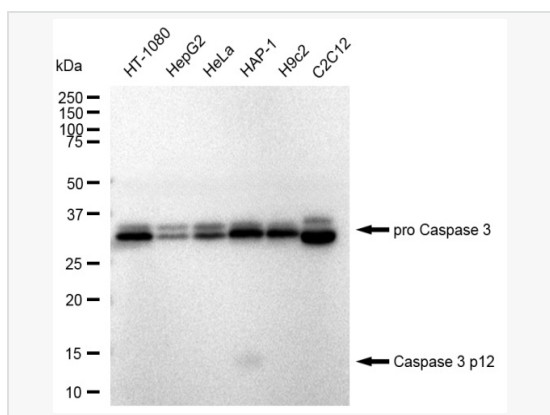
Flow cytometric analysis of Caspase 3 p12 expression in C2C12 cells using Caspase 3 p12 antibody (R021679, 1:2,000). Green, isotype control; red, Caspase 3 p12.



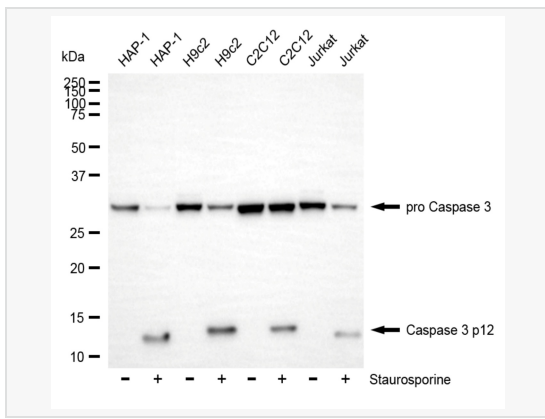
Immunocytochemical staining of C2C12 cells with Caspase 3 p12 antibody (R021679, 1:1,000). Nuclei were stained blue with DAPI; Caspase 3 p12 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 μ m.



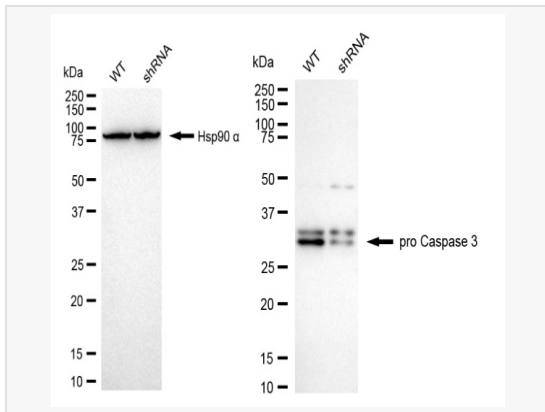
Immunohistochemistry was performed on paraffin-embedded human tonsillitis using caspase 3 p12 antibody (R021679, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40 \times objective). Scale bar: 25 μ m.



Western blotting analysis using Caspase 3 p12 antibody (R021679). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Caspase 3 p12 antibody (R021679, 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 p12 antibody (R021679). Total cell lysates (30 μ g) from various cell lines untreated or treated with staurosporine (1 μ M, 3hr) were loaded and separated by SDS-PAGE. The blot was incubated with Caspase 3 p12 antibody (R021679, 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 p12 antibody (R021679). Caspase-3 p12 expression in wild type (WT) and Caspase-3 p12 shRNA knockdown (KD) HeLa cells with 30 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Caspase-3 p12 antibody (R021679, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.