

Anti-Cleaved+pro Caspase-3 Antibody [JE75-05]

HA722367



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse
Applications:	WB
Molecular Wt:	Predicted band size: 32 kDa
Clone number:	JE75-05

Description: Caspase-3 is a caspase protein that interacts with caspase-8 and caspase-9. It is encoded by the CASP3 gene. CASP3 orthologs have been identified in numerous mammals for which complete genome data are available. Unique orthologs are also present in birds, lizards, lissamphibians, and teleosts. Caspase-3 shares many of the typical characteristics common to all currently-known caspases. For example, its active site contains a cysteine residue (Cys-163) and histidine residue (His-121) that stabilize the peptide bond cleavage of a protein sequence to the carboxy-terminal side of an aspartic acid when it is part of a particular 4-amino acid sequence. This specificity allows caspases to be incredibly selective, with a 20,000-fold preference for aspartic acid over glutamic acid. A key feature of caspases in the cell is that they are present as zymogens, termed procaspases, which are inactive until a biochemical change causes their activation. Each procaspase has an N-terminal large subunit of about 20 kDa followed by a smaller subunit of about 10 kDa, called p20 and p10, respectively.

Immunogen: Recombinant protein within Human Caspase-3 aa 1-200 / 277.

Positive control: HeLa cell lysate, HeLa treated with 1 μ M staurosporine for 4 hours cell lysate, NIH/3T3 cell lysate.

Subcellular location: Cytoplasm.

Database links: SwissProt: P42574 Human | P70677 Mouse

Recommended Dilutions:
WB 1:1,000-1:2,000

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4 $^{\circ}$ C after thawing. Aliquot store at -20 $^{\circ}$ C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

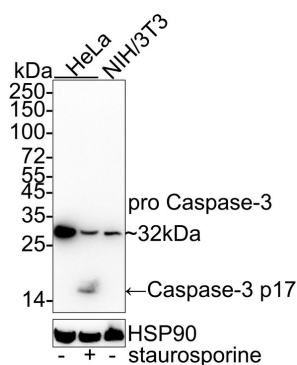


Fig1: Western blot analysis of Cleaved+pro Caspase-3 on different lysates with Rabbit anti-Cleaved+pro Caspase-3 antibody (HA722367) at 1/1,000 dilution.

Lane 1: HeLa cell lysate

Lane 2: HeLa treated with 1 μ M staurosporine for 4 hours cell lysate

Lane 3: NIH/3T3 cell lysate

Lysates/proteins at 20 μ g/Lane.

Predicted band size: 32 kDa

Observed band size: 32/17 kDa

Exposure time: 2 minutes 7 seconds; ECL: K1801;

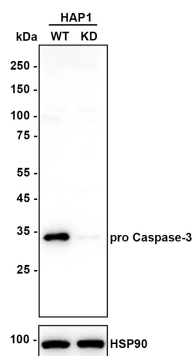
4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA722367) at 1/1,000 dilution was used in 5% NFDM/TBST at 4 $^{\circ}$ C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of Cleaved+pro Caspase-3 on different lysates with Rabbit anti-Cleaved+pro Caspase-3 antibody (HA722367) at 1/2,000 dilution.

Lane 1: HAP1-parental cell lysate

Lane 2: HAP1-Cleaved+pro Caspase-3 KD cell lysate



Lysates/proteins at 10 μ g/Lane.

Predicted band size: 32 kDa

Observed band size: 32 kDa

Exposure time: 40 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA722367) at 1/2,000 dilution was used in K1803 at 4 $^{\circ}$ C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Dong L et al. Echinacoside Induces Apoptosis in Human SW480 Colorectal Cancer Cells by Induction of Oxidative DNA Damages. *Int J Mol Sci* 16:14655-68 (2015).
2. Nilsson G et al. Phenotype-dependent apoptosis signalling in mesothelioma cells after selenite exposure. *J Exp Clin Cancer Res* 28:92 (2009).

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