

# Cleaved Caspase-3 (Asp175) (D3E9) Rabbit mAb (PE Conjugate)

✓ 100 µl  
(50 tests)



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New 12/13

**For Research Use Only. Not For Use In Diagnostic Procedures.**

Entrez Gene ID #836  
UniProt ID #P42574

**Applications**  
F  
Endogenous

**Species Cross-Reactivity\***  
H, (M, R, B, Pg)

**Isotype**  
Rabbit IgG

**Description:** This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Cleaved Caspase-3 (Asp175) (D3E9) Rabbit mAb #9579.

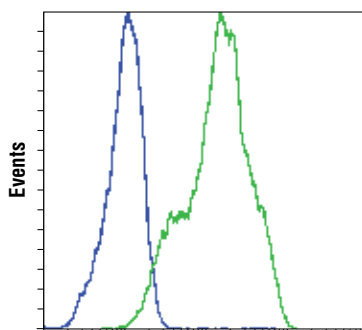
**Background:** Caspase-3 (CPP-32, Apoptain, Yama, SCA-1) is a critical executioner of apoptosis, as it is either partially or totally responsible for the proteolytic cleavage of many key proteins, such as the nuclear enzyme poly (ADP-ribose) polymerase (PARP) (1). Activation of caspase-3 requires proteolytic processing of its inactive zymogen into activated p17 and p12 fragments. Cleavage of caspase-3 requires the aspartic acid residue at the P1 position (2).

**Specificity/Sensitivity:** Cleaved Caspase-3 (Asp175) (D3E9) Rabbit mAb (PE Conjugate) recognizes endogenous levels of caspase-3 protein only when cleaved at Asp175.

**Source/Purification:** Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp175 of human caspase-3 protein.

## Background References:

- (1) Fernandes-Alnemri, T. et al. (1994) *J. Biol. Chem.* 269, 30761-30764.
- (2) Nicholson, D. W. et al. (1995) *Nature* 376, 37-43.



**Cleaved Caspase-3 (Asp175) (PE Conjugate)**

Flow cytometric analysis of Jurkat cells, untreated (blue) or treated with Etoposide #2200 (green), using Cleaved Caspase-3 (Asp175) (D3E9) Rabbit mAb (PE Conjugate).

**Storage:** Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibodies. Protect from light. Do not freeze.

**\*Species cross-reactivity is determined by western blot using the unconjugated antibody.**

## Recommended Antibody Dilutions:

Flow Cytometry 1:50

**For product specific protocols please see the web page for this product at [www.cellsignal.com](http://www.cellsignal.com).**

**Please visit [www.cellsignal.com](http://www.cellsignal.com) for a complete listing of recommended companion products.**