Cleaved Caspase-3 (Asp175) (D3E9) Rabbit mAb (PE Conjugate) #12768

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

**Product Usage Information**

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<th>Application</th>
<th>Flow Cytometry</th>
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<td>Dilution</td>
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**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.

**Specificity / Sensitivity**

Cleaved Caspase-3 (Asp175) (D3E9) Rabbit mAb (PE Conjugate) recognizes endogenous levels of caspase-3 protein only when cleaved at Asp175. This antibody may also detect non-specific caspase substrates.

**Species Reactivity:**

Human

**Species predicted to react based on 100% sequence homology:**

Mouse, Rat, Monkey, Bovine, Dog, Pig

**Source / Purification**

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

**Product 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).


**Applications:**

- WB: Western Blot
- IP: Immunoprecipitation
- IHC: Immunohistochemistry
- ChIP: Chromatin Immunoprecipitation
- IF: Immunofluorescence
- F: Flow Cytometry
- E-P: ELISA-Peptide

**CROSS-REACTIVITY:**

- Human
- Mouse
- Rat
- Hamster
- Monkey
- Mink
- Chicken
- Drosophila melanogaster
- Xenopus
- Zebrafish
- Bovine
- Dog
- Pig
- Scylla
- Caenorhabditis elegans
- Horse
- All species expected

**IMPORTANT:** For primary antibodies recommended for western blotting applications, we recommend incubating the membrane with diluted antibody at 4°C with gentle shaking overnight. Please refer to the product-specific protocol for our antibody diluent recommendation.

For more information, please visit www.cellsignal.com.