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

Product Usage Information

Application: Flow Cytometry
Dilution: 1:50

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).

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