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Cleaved Caspase-3 (Asp175) (D3E9) Rabbit mAb (Pacific Blue™ Conjugate)

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: FC-FP	Reactivity: H M	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P42574	Entrez-Gene Id: 836
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	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 antibody. Protect from light. Do not freeze.	
Specificity/Sensitivity	Cleaved Caspase-3 (Asp175) (D3E9) Rabbit mAb (Pacific Blue™ Conjugate) recognizes endogenous levels of caspase-3 protein only when cleaved at Asp175. Non-specific labeling may be observed by immunofluorescence in specific sub-types of healthy cells in fixed-frozen tissues (e.g. pancreatic alpha-cells). Nuclear background may be observed in rat and monkey samples.	
Species predicted to react based on 100% sequence homology	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.	
Description	This Cell Signaling Technology antibody is conjugated to Pacific Blue™ fluorescent dye and tested in-house for direct flow cytometry in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated antibody Cleaved Caspase-3 (Asp175) (D3E9) Rabbit mAb #9579.	
Background	Caspase-3 (CPP-32, Apopain, 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).	
Background References	<ol style="list-style-type: none"> 1. Fernandes-Alnemri, T. et al. (1994) <i>J Biol Chem</i> 269, 30761-4. 2. Nicholson, D.W. et al. (1995) <i>Nature</i> 376, 37-43. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	H: Human M: Mouse
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