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#9579

Cleaved Caspase-3 (Asp175) (D3E9) Rabbit mAb

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

Applications: IHC-P, IF-IC, 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 Immunohistochemistry (Paraffin) Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)	Dilution 1:250 1:1600 - 1:6400 1:200
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. For a carrier free (BSA and azide free) version of this product see product #74860	
Specificity/Sensitivity	Cleaved Caspase-3 (Asp175) (D3E9) Rabbit mAb recognizes endogenous levels of caspase-3 protein only when cleaved at Asp175. This antibody is preferred for immunofluorescence, flow cytometry, and immunohistochemistry applications. This antibody detects non-specific caspase substrates by western blot. 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, 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.	
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	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	IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	H: Human M: Mouse
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