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Apoptosis Marker: Cleaved Caspase-3 (Asp175) Antibody (Fluorescein Conjugate)

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

Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
Endogenous	Rabbit	#P42574	836
Specificity/Sensitivity	Cleaved Caspase-3 (Asp175) Antibody (Fluorescein Conjugate) detects endogenous levels of cleaved caspase-3 and serves as a useful marker for detecting apoptotic cells by immunofluorescence. For fluorescent detection, use excitation 494 nm and emission 520 nm.		
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues around the cleavage site of caspase-3 at Asp175. Antibodies are purified by protein A and peptide affinity chromatography.		
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).

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