

#14214 Store at -20C

Caspase-3 (D3R6Y) Rabbit mAb (IHC Formulated)



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

Applications: IHC-P	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P42574	Entrez-Gene Id: 836
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Product Usage Information	Application Immunohistochemistry (Paraffin)	Dilution 1:300
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.	
Specificity / Sensitivity	Caspase-3 (D3R6Y) Rabbit mAb (IHC Formulated) recognizes endogenous levels of total caspase-3 protein by immunohistochemistry.	
Species predicted to react based on 100% sequence homology:	Pig	
Source / Purification	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the p20 subunit 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)
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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