

#14220 Store at -20°C

Caspase-3 (D3R6Y) Rabbit mAb



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, W-S, IP	H M R Mk	Endogenous	35, 19, 17	Rabbit IgG	#P42574	836

Product Usage Information	Application Western Blotting Simple Western™ Immunoprecipitation	Dilution 1:1000 1:10 - 1:50 1:100
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 recognizes endogenous levels of total caspase-3 protein. This antibody detects full-length caspase-3 as well as the large subunit (p20) of caspase-3 resulting from cleavage during apoptosis.	
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).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation
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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