Apaf-1 (D7G4) Rabbit mAb



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Applications:	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 135	Source/Isotype: Rabbit IgG	UniProt ID: #O14727	Entrez-Gene Id: 317
Product Usage Information		Application Western Blotting			Dilution 1:1000	
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		Apaf-1 (D7G4) Rabbit mAb recognizes endogenous levels of total Apaf-1 protein.				
Species predicted to react based on 100% sequence homology		Monkey, Bovine, Pig				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Apaf-1 protein.				
Background		Apoptotic protease activating factor 1 (Apaf-1), originally identified as the mammalian homolog of the <i>C. elegans</i> apoptotic regulatory protein CED-4, is an important signaling protein involved in the activation of caspase-9 during apoptosis (1). Cytosolic Apaf-1 forms a complex with caspase-9 in the presence of cytochrome c and dATP, ultimately leading to caspase-9 activation and subsequent activation of caspase-3 (2,3). The protein contains an amino-terminal CARD domain, a central CED-4 homology domain, and multiple WD-40 repeats at the carboxy-terminus. Several isoforms of Apaf-1 are expressed through alternative splicing generating a small insert following the CARD domain as well as an extra WD-40 repeat (4). Apaf-1 knock-out mice display widespread defects in apoptosis and resistance to a variety of apoptotic stimuli (5,6).				
Background References		 Zou, H. et al. (1997) Cell 90, 405-13. Zou, H. et al. (1999) J Biol Chem 274, 11549-56. Saleh, A. et al. (1999) J Biol Chem 274, 17941-5. Benedict, M.A. et al. (2000) J Biol Chem 275, 8461-8. Cecconi, F. et al. (1998) Cell 94, 727-37. Yoshida, H. et al. (1998) Cell 94, 739-50. 				
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Western Blot Bเ	uffer	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		W: Western Blotting				

Cross-Reactivity Key H: Human M: Mouse R: Rat

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