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## Apaf-1 (D7G4) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R	Endogenous	135	Rabbit IgG	#O14727	317

<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	Apaf-1 (D7G4) Rabbit mAb recognizes endogenous levels of total Apaf-1 protein.	
<b>Species predicted to react based on 100% sequence homology:</b>	Monkey, Bovine, Pig	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Apaf-1 protein.	
<b>Background</b>	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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Zou, H. et al. (1997) <i>Cell</i> 90, 405-13.</li> <li>2. Zou, H. et al. (1999) <i>J Biol Chem</i> 274, 11549-56.</li> <li>3. Saleh, A. et al. (1999) <i>J Biol Chem</i> 274, 17941-5.</li> <li>4. Benedict, M.A. et al. (2000) <i>J Biol Chem</i> 275, 8461-8.</li> <li>5. Cecconi, F. et al. (1998) <i>Cell</i> 94, 727-37.</li> <li>6. Yoshida, H. et al. (1998) <i>Cell</i> 94, 739-50.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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