Revision 4

Store at -200

69



MW (kDa): **Applications:** Reactivity: Sensitivity: Source/Isotype: UniProt ID: Entrez-Gene Id: Rabbit IgG W, IP ΗМ Endogenous 135 #014727 317 Product Usage Application Dilution Information Western Blotting 1:1000 Immunoprecipitation 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 Apaf-1 (D5C3) Rabbit mAb recognizes endogenous levels of total Apaf-1 protein. Species predicted to react Monkey based on 100% sequence homology Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro470 of human Apaf-1 protein. Apoptotic protease activating factor 1 (Apaf-1), originally identified as the mammalian homolog of the Background *C. elegans* 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). 1. Zou, H. et al. (1997) *Cell* 90, 405-13. **Background References** 2. Zou, H. et al. (1999) / Biol Chem 274, 11549-56. 3. Saleh, A. et al. (1999) J Biol Chem 274, 17941-5. 4. Benedict, M.A. et al. (2000) / Biol Chem 275, 8461-8. 5. Cecconi, F. et al. (1998) Cell 94, 727-37. 6. 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 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 W: Western Blotting IP: Immunoprecipitation **Cross-Reactivity Key** H: Human M: Mouse Trademarks and Patents Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information. **Limited Uses** Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless

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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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