9907

Endonuclease G Antibody



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

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 25, 30	Source/Isotype: Rabbit	UniProt ID: #Q14249	Entrez-Gene Id: 2021
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Endonuclease G Antibody detects endogenous levels of total Endonuclease G protein.				
Species prediction to the second seco		Monkey				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Cys122 of human Endonuclease G. Antibodies were purified by protein A and peptide affinity chromatography.				
Background		Endonuclease G (EndoG) is a nuclear-encoded mitochondrial nuclease that has been reported to function in apoptosis, DNA recombination and cell proliferation (1-5). EndoG is expressed as a precursor protein containing an amino-terminal mitochondrial targeting sequence which is removed when the protein is imported into the mitochondria (1). During apoptosis EndoG is released from the mitochondria, translocates to the nucleus and cooperates with other nucleases to trigger DNA fragmentation associated with the apoptotic process (3,6,7).				
Background References		1. Côté, J. and Ruiz-Carrillo, A. (1993) <i>Science</i> 261, 765-769. 2. Parrish, J. et al. (2001) <i>Nature</i> 412, 90-94. 3. Li, L.Y. et al. (2001) <i>Nature</i> 412, 95-99. 4. Zhang, J. et al. (2003) <i>Proc. Natl. Acad. Sci. USA</i> 100, 15782-15787. 5. Huang, K.J. et al. (2006) <i>Proc. Natl. Acad. Sci. USA</i> 103, 8995-9000. 6. Widlak, P. et al. (2001) <i>J. Biol. Chem.</i> 276, 48404-48409. 7. Arnoult, D. et al. (2003) <i>EMBO J.</i> 22, 4385-4399. 8. Kozako, T. et al. (2015) <i>Sci Rep</i> 5, 11345.				

Species Reactivity

Applications Key

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.

W: Western Blotting

Cross-Reactivity Key

H: Human M: Mouse R: Rat

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