

#4272 Store at -20°C

Cytochrome c Antibody



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TECHNOLOGY®

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

Applications: WB, IHC-P	Reactivity: H M R Mk Dm	Sensitivity: Endogenous	MW (kDa): 14	Source: Rabbit	UniProt ID: #P99999	Entrez-Gene Id: 54205
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Product Usage Information	Application Western Blotting Immunohistochemistry (Paraffin)	Dilution 1:1000 1:200
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	Cytochrome c Antibody detects endogenous levels of cytochrome c protein.	
Species predicted to react based on 100% sequence homology:	Bovine	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro72 of human cytochrome c. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Cytochrome c is a well conserved electron-transport protein and is part of the respiratory chain localized to mitochondrial intermembrane space (1). Upon apoptotic stimulation, cytochrome c released from mitochondria associates with procaspase-9 (47 kDa)/Apaf 1. This complex processes caspase-9 from inactive proenzyme to its active form (2). This event further triggers caspase-3 activation and eventually leads to apoptosis (3).	
Background References	1. Schagger H.H. et al. (2002) <i>Biochem. Biophys. Acta.</i> 1555, 154-159. 2. Li, P. et al. (1997) <i>Cell</i> 91, 479-489. 3. Liu, X. et al. (1996) <i>Cell</i> 86, 147-157.	

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin)
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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