

#4280 Store at **-20°C**

Cytochrome c (136F3) Rabbit mAb



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For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W, IHC-P Endogenous	H, M, R, Mk	14 kDa	Rabbit IgG**

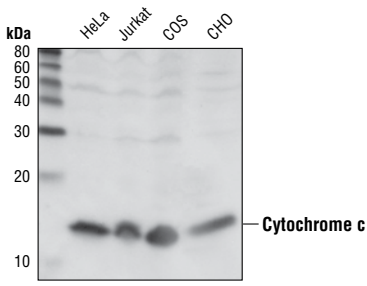
Background: Cytochrome c is a well conserved electron-transport protein and is part of the respiratory chain localized to mitochondrial intermembrane space (1). Upon apoptotic stimulation, cytochrome c released from mitochondria associates with procaspase-9 (47 kDa)/Apaf 1. This complex processes caspase-9 from inactive proenzyme to its active form (2). This event further triggers caspase-3 activation and eventually leads to apoptosis (3).

Specificity/Sensitivity: Cytochrome c (136F3) Rabbit mAb detects endogenous levels of total cytochrome c protein.

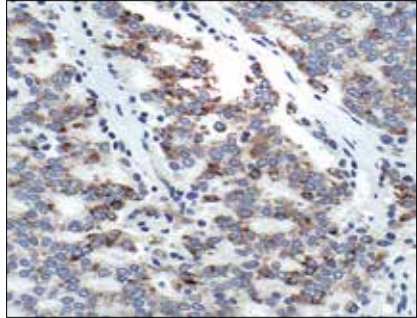
Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro72 of human cytochrome c protein.

Background References:

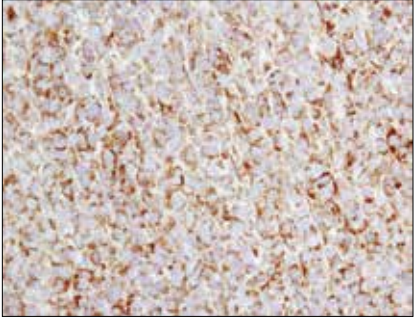
- (1) Schagger H.H. et al. (2002) *Biochem. Biophys. Acta.* 1555, 154–159.
- (2) Li, P. et al. (1997) *Cell* 91, 479–489.
- (3) Liu, X. et al. (1996) *Cell* 86, 147–157.



Western blot analysis of cell lysates from various cell lines, using Cytochrome c (136F3) Rabbit mAb.



Immunohistochemical analysis of paraffin-embedded human prostate carcinoma using Cytochrome c (136F3) Rabbit mAb.



Immunohistochemical analysis of paraffin-embedded 4T1 syngeneic mouse tumor using Cytochrome c (136F3) Rabbit mAb #4280.

Entrez-Gene ID # 54205
UniProt ID # P99999

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.

***Species cross-reactivity is determined by western blot.**
****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting 1:1000
 Immunohistochemistry (Paraffin) 1:200†
 Unmasking buffer: Citrate
 Antibody diluent: SignalStain® Antibody Diluent #8112
 Detection reagent: SignalStain® Boost (HRP, Rabbit) #8114
 †Optimal IHC dilutions determined using SignalStain® Boost IHC Detection Reagent.

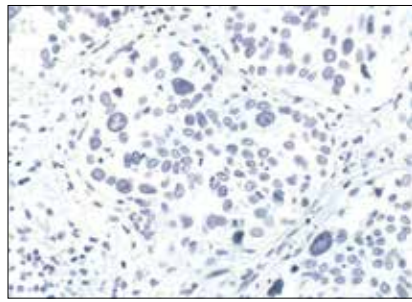
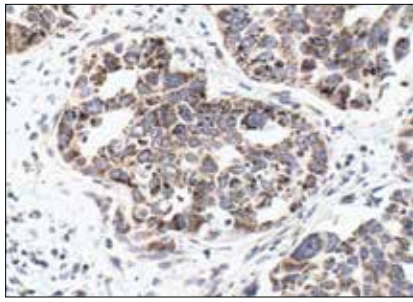
For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

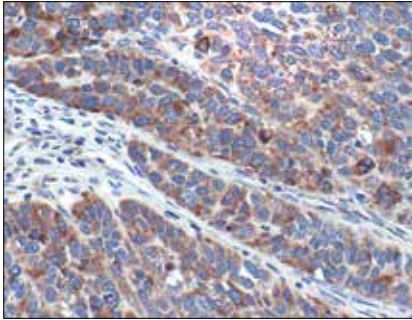
Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
 Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.

U.S. Patent No. 5,675,063
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Immunohistochemical analysis of paraffin-embedded human lung carcinoma using Cytochrome c (136F3) Rabbit mAb in the presence of control peptide (left) or Cytochrome c Blocking Peptide #1033 (right).



Immunohistochemical analysis of paraffin-embedded human colon carcinoma using Cytochrome c (136F3) Rabbit mAb.