

Cytochrome c Release Assay Kit

Cat. No. Kit-0266 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mitochondrial Cytochrome c Release Assay
Size	1 kit/100 assays
Description	Cytochrome c plays an important role in apoptosis. The protein is located in the space between the inner and outer mitochondrial membranes. An apoptotic stimulus triggers the release of cytochrome c from the mitochondria into cytosol where it binds to Apaf-1. The cytochrome c/Apaf-1 complex activates caspase-9, which then activates caspase-3 and other downstream caspases. The Cytochrome c Releasing Apoptosis Assay Kit provides an effective means for detecting cytochrome c translocation from mitochondria into cytosol during apoptosis. The kit provides unique formulations of reagents to isolate a highly enriched mitochondria fraction from cytosol. The procedure is so simple and easy to perform, no ultracentrifugation is required and no toxic chemicals are involved. Cytochrome c releasing from mitochondria into cytosol is then determined by Western blotting using the cytochrome c antibody provided in the kit.
Applications	Effective means for detecting cytochrome c translocation from mitochondria into cytosol during apoptosis. The kit provides an easy-to-use procedure and reagents for separating a mitochondria-enriched fraction from cytosol.
Target Species	Mammal
Usage	For research use only. Not intended for any diagnostic or therapeutic purpose.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Store at -20°C. Product has an expected shelf life of 12 months.
Kit Components	Mitochondria Extraction Buffer: 10 ml; 5X Cytosol Extraction Buffer: 20 ml; DTT (1 M): 110 µL; 500X Protease Inhibitor Cocktail (Lyophilized): 1 vial-Add 250 µL DMSO to dissolve the 500X Protease Inhibitor Cocktail before use; Anti-Cytochrome c Mouse mAb (0.2 mg/ml): 0.5 ml
Detection method	Western blotting
Compatible Sample Types	Cells and Tissues
Features & Benefits	1. Simple procedure; takes ~3 hours. 2. Fast and convenient. 3. Cytochrome c releasing from mitochondria into cytosol is then determined by Western blotting using the cytochrome c antibody provided in the kit. The procedure is simple and straightforward. No ultracentrifugation is required. The kit provides optimal reagents and antibodies for 100 assays.

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