

Mitochondrial Membrane Assay Kit

Mitochondrial Membrane Potential Assay Kit (With JC-1)

CATALOG #
AAA174687

PRODUCT SYNONYMS

Mitochondrial Membrane; Mitochondrial Membrane Potential Assay Kit (With JC-1); Mitochondrial Membrane assay kit

PRODUCT SPECIFICATIONS

Sequence Length	954
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ADDITIONAL INFORMATION

Related Product Information for Mitochondrial Membrane assay kit

Principle of the Assay: The decrease of mitochondrial membrane potential is a marker event in the early stage of apoptosis. It occurs before the appearance of nuclear apoptotic characteristics (chromatin concentration and DNA fragmentation). Once the mitochondrial membrane potential collapses, apoptosis is irreversible. In normal cells, the mitochondrial membrane potential is high, JC-1 gathers in the matrix of mitochondria to form a polymer, which yields a red to orange colored emission (590 $\pm$ 17.5 nm). In the early stage of apoptosis, the mitochondrial membrane potential decreases, JC-1 can't gather and it is a monomer which yields green fluorescence with emission of 530 $\pm$ 15nm.

Background/Introduction: Mitochondrial Membrane Potential Assay Kit (with JC-1) is developed to identify apoptotic cells with JC-1 reagent by changing of mitochondrial membrane potential which occurs in early apoptosis. This kit provides Carbonyl cyanide m-chlorophenylhydrazone (CCCP) to induce the decrease of mitochondrial membrane potential as a positive control reagent.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1464596365
NCBI Official Full Name	mitochondrial membrane

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/assay-kits/mitochondrial-membrane/174687>