

MITOCHONDRIAL PERMEABILITY TRANSITION:MitoPT JC-1 KIT Assay Kit

MITOCHONDRIAL PERMEABILITY TRANSITION KIT

CATALOG #
AAA50629

APPLICATIONS
Immunofluorescence, Flow Cytometry, Functional Assay

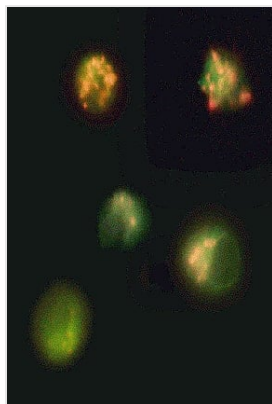
PRODUCT SYNONYMS

MITOCHONDRIAL PERMEABILITY TRANSITION:MitoPT JC-1 KIT; MITOCHONDRIAL PERMEABILITY TRANSITION KIT; MITOCHONDRIAL PERMEABILITY TRANSITION:MitoPT JC-1 KIT assay kit

PRODUCT SPECIFICATIONS

Form/Format	Kit
Reagents In The Kits	MitoPTTM JC-1 Reagent - lyophilized, 10X Assay Buffer, 125mL, 600uL vial of 50mM Carbonylcyanide m - chlorophenylhydrazone (CCCP) concentrate in DMSO
Applicable Applications for MITOCHONDRIAL PERMEABILITY TRANSITION:MitoPT JC-1 KIT assay kit	IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Preparation and Storage	Store the unopened kit (and each unopened component) at -20 degree C until the expiration date. Protect the MitoPTTM JC-1 reagent from light at all times. Once reconstituted, the 100X MitoPTTM JC-1 stock should be stored at -20 degree C protected from light. Shelf Life: The 100X MitoPTTM JC-1 reconstituted stock is stable for up to 6 months and may be thawed twice during that time.

IMAGES



Application Data

Jurkat cells were stained with MitoPTTM JC-1 and viewed through a fluorescence microscope using a broad band path filter. Non-apoptotic cells exhibit red stained mitochondria (2 cells at the top). Apoptotic cells at varying stages of mitochondrial membrane potential appear green (3 cells at the bottom)

ADDITIONAL INFORMATION

Related Product Information for MITOCHONDRIAL PERMEABILITY TRANSITION:MitoPT JC-1 KIT assay kit	Description: The MitoPTTM JC-1 kit uses a quick and easy staining method to clearly differentiate between non-apoptotic and apoptotic cells through mitochondrial functionality. Test Principle: An early indication of apoptosis involves a collapse in the electrochemical gradient across the mitochondrial membrane. Loss of mitochondrial membrane potential can be detected by a unique fluorescent cationic dye known as JC-1 (5,5',6,6'-tetrachloro-1,1',3,3'-tetraethylbenzamidazolocarbocyanin iodide) that has been incorporated into the MitoPTTM JC-1 kit. The MitoPTTM JC-1 reagent easily penetrates cells and enters the mitochondria. It aggregates in the mitochondria of non-apoptotic cells and fluoresces red, whilst in apoptotic cells it diffuses throughout the cell. Once dispersed, the reagent assumes a monomeric form and fluoresces green. This allows an easy distinction between non-apoptotic red fluorescent cells and apoptotic green fluorescent cells which can be read with a flow cytometer, fluorescence microscope or a fluorescence plate reader using black microtitre plates.
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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.

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Online datasheet: <https://stage.aaabiotech.com/assay-kits/mitochondrial-permeability-transitionmitopt-jc-1-kit/50629>