

MITOCHONDRIAL MEMBRANE POTENTIAL MitoPT TMRE KIT Assay Kit

MITOCHONDRIAL MEMBRANE POTENTIAL KIT

CATALOG #
AAA50631

APPLICATIONS
Immunofluorescence, Flow Cytometry, Functional Assay

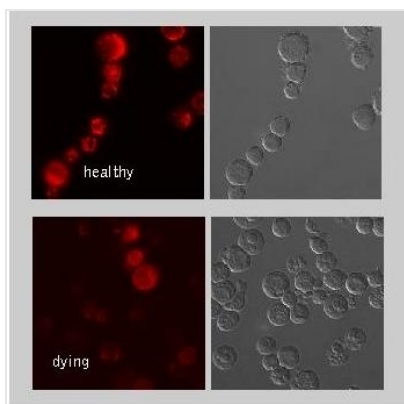
PRODUCT SYNONYMS

MITOCHONDRIAL MEMBRANE POTENTIAL MitoPT TMRE KIT; MITOCHONDRIAL MEMBRANE POTENTIAL KIT; MITOCHONDRIAL MEMBRANE POTENTIAL MitoPT TMRE KIT assay kit

PRODUCT SPECIFICATIONS

Form/Format	Kit
Reagents In The Kits	MitoPTTM TMRE Reagent - lyophilized - to make up 1mM stock, 10X Assay Buffer, 125mL, 600uL vial 50mM Carbonylcyanide m - chlorophenylhydrazine (CCCP) concentrate in DMSO.
Applicable Applications for MITOCHONDRIAL MEMBRANE POTENTIAL MitoPT TMRE 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 TMRE reagent from light at all times. Once reconstituted, the 1mM MitoPTTM TMRE stock should be stored at -20 degree C protected from light. Shelf Life: The 1mM MitoPTTM TMRE reconstituted stock is stable for up to 12 months and may be thawed three times during that time.

IMAGES



Application Data

Jurkat cells were cultured in the absence (healthy) or presence (dying) of staurosporine to induce apoptosis and then stained with TMRE dye. Cells were analyzed using a Nikon Eclipse E800 photomicroscope using a green excitation filter (510-560 nm) in tandem with a 570-620 nm emission filter. Apoptotic cells with depolarized mitochondria exhibit reduced orange/red fluorescence

ADDITIONAL INFORMATION

Related Product Information for MITOCHONDRIAL MEMBRANE POTENTIAL MitoPT TMRE KIT assay kit	Description: The MitoPTTM TMRE 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 TMRE (tetramethylrhodamine ethyl ester), that has been incorporated into the MitoPTTM TMRE kit. The MitoPTTM TMRE reagent easily penetrates cells and enters the mitochondria. It aggregates in the mitochondria of non-apoptotic cells and fluoresces bright orange/red, whilst in apoptotic cells it diffuses throughout the cell. Once dispersed, the reagent assumes a monomeric form and exhibits a reduced orange/red fluorescence level. This allows an easy distinction between apoptotic and non-apoptotic 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-membrane-potential-mitopt-tmre-kit/50631>