

Mitochondrion Staining Kit

Mitochondrion Staining Kit (Orange Fluorescence)

CATALOG #
AAA332439

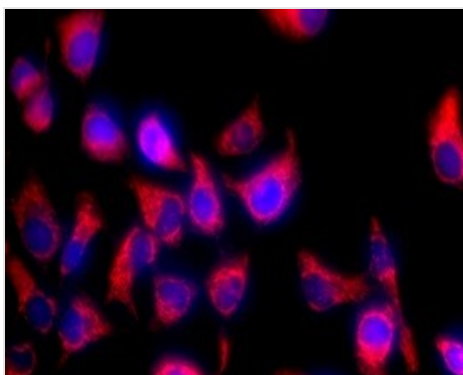
PRODUCT SYNONYMS

Mitochondrion; Mitochondrion Staining Kit (Orange Fluorescence); Mitochondrion staining kit

PRODUCT SPECIFICATIONS

Sequence Length	554
Features & Benefits	Enables the uniform staining of mitochondrion across a wide variety of mammalian cell types, and can be used for both living and fixed suspended or attached cells. Optimized for various fluorescence platforms such as microplate assays, flow cytometry and fluorescence microscope. Proprietary MitoOrange (Ex/Em = 579/599 nm)-easily permeates intact living cells and can be retained after formaldehyde fixation and permeabilization, suitable for double labeling experiments.
Preparation and Storage	Refer to list of materials supplied for storage conditions of individual components. Stable for at least 6 months at recommended temperature from date of shipment.

IMAGES



Application Data

Fig. HeLa cells stained with Mitochondrion Staining Kit (Orange Fluorescence).

ADDITIONAL INFORMATION

Related Product Information for Mitochondrion staining kit	Description: Mitochondrion Staining Kits are a set of fluorescence imaging tools to label mitochondria of live cells. This kit uses a proprietary mitochondrial orange fluorescent probe (Ex/Em=579/599 nm), which, like other probes, the kit uses a proprietary dye that selectively accumulates in mitochondria probably via the mitochondrial membrane potential gradient. MitoOrange, a hydrophobic compound, easily permeates intact living cells and can be retained after formaldehyde fixation and permeabilization. The dye is suitable for double labeling experiments, and its orange fluorescent probes is well distinguished from other green fluorescent probes. The fluorescence can be measured using fluorescence imaging, high-content imaging, microplate fluorometry, or flow cytometry. This kit is suitable for proliferating and non-proliferating cells, and can be used for both suspension and adherent cells. Background: Mitochondria is a double-membrane-bound organelle found in most eukaryotic cells. The function of mitochondria is to provide cellular energy. Moreover, mitochondria are involved in other tasks, such as signaling, cellular differentiation, and cell death, as well as maintaining control of the cell cycle and cell growth. Mitochondria have been implicated in several human diseases, including mitochondrial disorders, cardiomyopathy, heart failure and autism. Mitochondria may play an important role in these cellular processes.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1020703694
NCBI Official Full Name	mitochondrion

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/staining-kits/mitochondrion/332439>