

Non-Wash Mitochondrial ROS Activity Assay Kit

Elite Non-Wash Mitochondrial ROS Activity Assay Kit (Deep Red Fluorescence), superoxide and hydroxyl radical preferred

CATALOG #
AAA62160

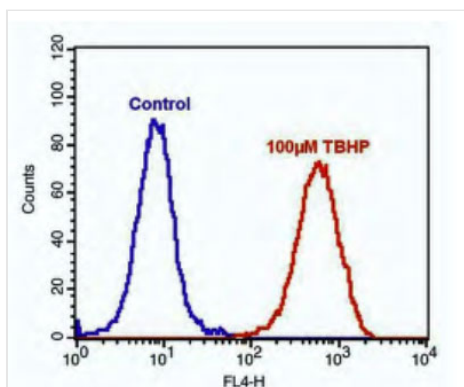
PRODUCT SYNONYMS

Non-Wash Mitochondrial ROS Activity; Elite Non-Wash Mitochondrial ROS Activity Assay Kit (Deep Red Fluorescence); superoxide and hydroxyl radical preferred; Non-Wash Mitochondrial ROS Activity assay kit

PRODUCT SPECIFICATIONS

Detection	Microplate microplate reader (Ex/Em = 650/675 nm); Fluorescence microscope; Flow cytometer
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IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Non-Wash Mitochondrial ROS Activity assay kit

Principle of the Assay: Reactive oxygen species (ROS) are natural byproducts of the normal metabolism of oxygen and play important roles in cell signaling and homeostasis. However, during oxidative stress-related states, ROS levels can increase dramatically. The accumulation of ROS results in significant damage to cell structures. The role of oxidative stress in cardiovascular disease, diabetes, osteoporosis, stroke, inflammatory diseases, a number of neurodegenerative diseases and cancer has been well established. The ROS measurement will help to determine how oxidative stress modulates varied intracellular pathways. This Elite™ Fluorimetric ROS Assay Kit uses our unique ROS sensor to quantify mitochondrial ROS in live cells. Elite™ ROS Deep Red uses a membrane-permeable non-fluorescent ROS sensor, which quickly penetrates mitochondrial membrane and generates very strong deep-red fluorescence signal when it reacts with ROS. The kit is an optimized "mix and read" assay format that is compatible with HTS liquid handling instruments. This Kit provides a sensitive, one-step fluorimetric assay to detect mitochondrial ROS (especially superoxide and hydroxyl radicals) in live cells with 1 hour incubation. The assay can be performed in a convenient 96-well or 384-well microtiter-plate format and be easily adapted to automation without a wash step. The intensity of the signal can be easily measured using a fluorescence microplate reader at Ex/Em = 650/675 nm, or a fluorescent microscope with TRITC filter or a flow-cytometry in FL2 channel. This kit can be used to either quantify the ROS activities in cells or screen the ROS inhibitors.

Product Categories/Family for Non-Wash Mitochondrial ROS Activity assay kit

[Assays and Kits for Molecular & Cell Biology](#)

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/non-wash-mitochondrial-ros-activity/62160>