

FLICA 660 Caspase-1 Assay Kit

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CATALOG #
AAA52734

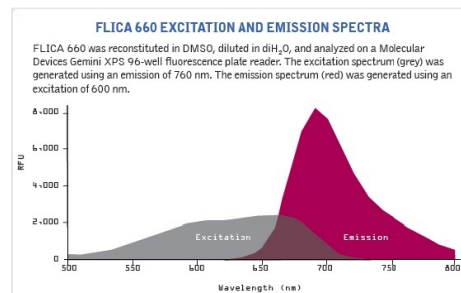
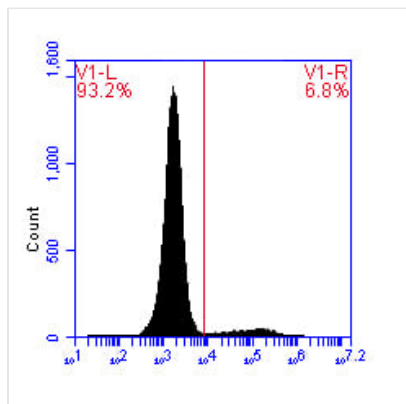
PRODUCT SYNONYMS

FLICA 660 Caspase-1; FLICA 660 Caspase-1 Assay Kit; FLICA 660 Caspase-1 assay kit

PRODUCT SPECIFICATIONS

Samples	Cell culture
Target	Caspase-1
Excitation/Emission	660 nm / 690 nm
Reagent	660-YVAD-FMK
Reagent Name	660-YVAD-FMK
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Application Data

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Jurkat cells were divided into treated and untreated pools and stained with 660-YVAD-FMK. After spiking FLICA into the cell culture media, Jurkat cells were treated with a negative control (left) or Nigericin (20 uM, catalog #6698) to induce caspase-1 activity (right) for 24 hours. Cells were washed 3 times and read on an Accuri C6 flow cytometer. Treatment with the negative control induced caspase-1 activity in only 6.8% of the cell population (left), whereas treatment with Nigericin induced caspase-1 activity in 57.3% of the experimental cells (right). This is a ratio of 8:1.

ADDITIONAL INFORMATION

Related Product Information for FLICA 660 Caspase-1 assay kit	Description: Detect caspase-1 activity with the FLICA 660 Caspase-1 Assay Kit. This in vitro assay employs the fluorescent inhibitor probe 660-YVAD-FMK to label active caspase-1 enzyme in living cells. Analyze the fluorescent signal using fluorescence microscopy or flow cytometry. Background: Caspases play important roles in apoptosis and inflammation. The FLICA assay kits are used by researchers seeking to quantitate apoptosis via caspase activity in cultured cells. The FLICA 660 Caspase-1 probe allows researchers to assess caspase-1 activation. The FLICA reagent 660-YVAD-FMK enters each cell and irreversibly binds to activated caspase-1. Because the 660-YVAD-FMK FLICA reagent becomes covalently coupled to the active enzyme, it is retained within the cell, while any unbound 660-YVAD-FMK FLICA reagent diffuses out of the cell and is washed away. The remaining far red fluorescent signal is a direct measure of the active caspase-1 enzyme activity present in the cell at the time the reagent was added. Cells that contain the bound FLICA can be analyzed by fluorescence microscopy or flow cytometry. Cells labeled with the FLICA reagent may be read immediately or preserved for 16 hours using the fixative. Unfixed samples may also be analyzed with Hoechst stain to detect changes in nuclear morphology.
Product Categories/Family for FLICA 660 Caspase-1 assay kit	Caspase-1; Caspases; Pyroptosis

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/flica-660-caspase-1/52734>