

FLICA 660 Caspase 3/7 Assay Kit | FLICA assay kit

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CATALOG #
AAA52704

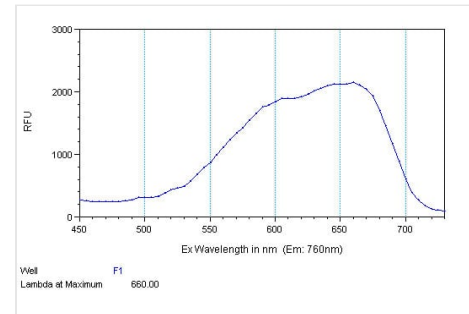
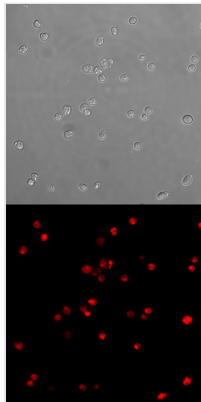
PRODUCT SYNONYMS

FLICA 660 Caspase 3/7; FLICA 660 Caspase 3/7 Assay Kit; FLICA assay kit

PRODUCT SPECIFICATIONS

Samples	Plasma Samples
Preparation and Storage	Store at 2-8 degree C

IMAGES



Application Data

FLUORESCENCE PROPERTIES OF FLICA 660POLY CASPASE REAGENT: Excitation max: 660 nm Emission max: 690 nm

Application Data

INTRACELLULAR APOPTOSIS DETECTION VIA ACTIVE CASPASE-3 ASSAY To demonstrate the fluorescence properties and apoptosis detection capability of the new far-red fluorescent FLICA 660 Caspase-3 Assay, Jurkat cells were treated with 1 μ M staurosporine for 4 hours and labeled with FLICA 660-DEVD-FMK caspase-3 inhibitor reagent. Using a Nikon E800 Hyperspectral Microscope equipped with a Photometrics HQ2 camera, far-red fluorescence emission from apoptotic Jurkat cells was acquired with a Cy5 HYQ bandpass filter combination set. FLICA 660-DEVD-FMK reagent optimally excites at 660 nm and has an emission max at 690 nm, making it suitable for use with red lasers on common benchtop flow cytometers and ideal for dual staining purposes with green fluorescent probes. At left: Montage of DIC image and fluorescence image shows placement of Jurkat cells in sample and far-red emission from apoptosis-positive Jurkat cells stained with FLICA 660 Caspase-3 Assay

ADDITIONAL INFORMATION

Related Product Information for FLICA assay kit

Background/Introduction: Factor XII or Hageman factor (EC 3.4.21.38), is the zymogen form of factor XIIa, a serine protease involved in Coagulation Pathway. This single chain zymogen is activated by Kallikrein into a two-chain serine protease (XIIa) with a heavy chain (factor XIIa- α) and a light chain. Human Factor XII and Prekallikrein are thought to be involved in a reciprocal activation mechanism in which Factor XIIa activates Prekallikrein to Kallikrein, which in turn converts Factor XII to XIIa. Factor XIIa activates Factor XI to XIa thereby triggering the Contact Factor cascade. The defects in this gene do not cause any clinical symptoms but prolong the whole blood clotting time. Factor XIIa activity assay kit utilizes the ability of factor XIIa to cleave a synthetic substrate to release α -Nitroaniline (α -NA) which can be quantitatively measured by a colorimetric assay (OD405 nm). The kit is easy-to-use and can detect Factor XIIa (as low as 1 mPEU) from plasma samples.

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-3-7/52704>