

EdU Cell Proliferation Flow Cytometry Assay Kit

E-Click EdU Cell Proliferation Flow Cytometry Assay Kit (Green, AF488)

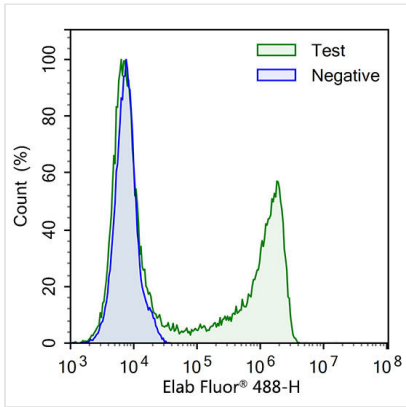
CATALOG #
AAA178140

PRODUCT SYNONYMS

EdU Cell Proliferation Flow Cytometry; E-Click EdU Cell Proliferation Flow Cytometry Assay Kit (Green; AF488); EdU Cell Proliferation Flow Cytometry assay kit

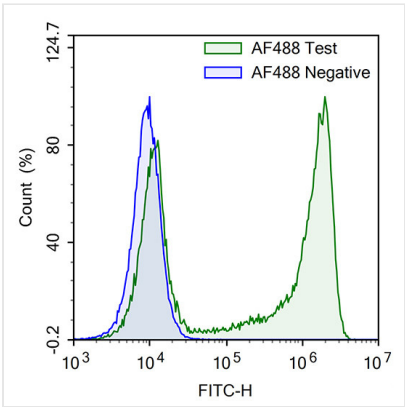
PRODUCT SPECIFICATIONS

Form/Format	PBS buffer (with 1%BSA) (PH7.2 ~ 7.4), PBS (with 1% Saponin) (pH7.2~7.6), 4% Polyformaldehyde (dissolved in PBS)(E-IR-R113), Deionized water.
Samples	Cell samples
Detection Instrument	Flow Cytometry
Dye Type	Fluor 488
Channel Set	FITC
Detection Principle	Cell proliferation assays are widely used in the evaluation of cell viability, genotoxicity, and the effect of antitumor drugs. Direct detection of DNA synthesis in cells is considered to be the most accurate method for detecting cell proliferation. The initial widely used method for detecting DNA synthesis in cells was the radiolabeled nucleoside incorporation method, but this method was greatly limited due to radioactive contamination and the difficulty of single-cell detection, and was gradually replaced by the BrdU method based on antibody detection. The BrdU method has many steps and requires the use of BrdU antibody, which has many influencing factors and poor stability. EdU method is based on EdU incorporation and subsequent click reaction, without the use of antibodies, convenient operation and high detection sensitivity. It is a new method upgraded on the basis of BrdU method and will gradually replace BrdU method. EdU (5-ethynyl-2-deoxyuridine), is a thymidine analog, EdU can replace thymidine in the process of DNA synthesis to incorporate into new in synthetic DNA. On the other hand, the acetylene group on EdU can react with fluorescently labeled small molecule azide probes (such as FITC Azide, Fluor 488 Azide, Fluor 594 Azide, Fluor 647 Azide) through the catalysis of monovalent copper ions to form a stable triazole ring. This reaction is very rapid and is called the click reaction. Through the click reaction, the newly synthesized DNA is labeled with the corresponding fluorescent probe, so that the proliferating cells can be detected using the appropriate fluorescent detection equipment.
Preparation and Storage	Store at -20 degree C, shading light Estimated Expiration: 12 months Shipping: Ice bag



Application Data

Test: Jurkat cells were treated with 10 uM EdU for 4 hours. Negative: Jurkat cells without EdU.



Application Data

Test: HL-60 cells were treated with 10 uM EdU for 3 hours. Negative: HL-60 cells without EdU.

ADDITIONAL INFORMATION

Related Product Information for EdU Cell Proliferation Flow Cytometry assay kit	Background: E-Click EdU Cell Proliferation Flow Cytometry Assay Kit is easy to operate and has high sensitivity. It is suitable for the proliferation assay of suspension cells, and the results can be analyzed by flow cytometry. Principle of the Assay: Cell proliferation assays are widely used in the evaluation of cell viability, genotoxicity, and the effect of antitumor drugs. Direct detection of DNA synthesis in cells is considered to be the most accurate method for detecting cell proliferation. The initial widely used method for detecting DNA synthesis in cells was the radiolabeled nucleoside incorporation method, but this method was greatly limited due to radioactive contamination and the difficulty of single-cell detection, and was gradually replaced by the BrdU method based on antibody detection. The BrdU method has many steps and requires the use of BrdU antibody, which has many influencing factors and poor stability. EdU method is based on EdU incorporation and subsequent click reaction, without the use of antibodies, convenient operation and high detection sensitivity. It is a new method upgraded on the basis of BrdU method and will gradually replace BrdU method. EdU (5-ethynyl-2-deoxyuridine), is a thymidine analog, EdU can replace thymidine in the process of DNA synthesis to incorporate into new in synthetic DNA. On the other hand, the acetylene group on EdU can react with fluorescently labeled small molecule azide probes (such as FITC Azide, Fluor 488 Azide, Fluor 594 Azide, Fluor 647 Azide) through the catalysis of monovalent copper ions to form a stable triazole ring. This reaction is very rapid and is called the click reaction. Through the click reaction, the newly synthesized DNA is labeled with the corresponding fluorescent probe, so that the proliferating cells can be detected using the appropriate fluorescent detection equipment.
Product Categories/Family for EdU Cell Proliferation Flow Cytometry assay kit	Cell Apoptosis

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/edu-cell-proliferation-flow-cytometry/178140>