

## TUNEL Flow Cytometry Apoptosis Kit

One-step TUNEL Flow Cytometry Apoptosis Kit (Blue, EV450)

CATALOG #  
**AAA178148**

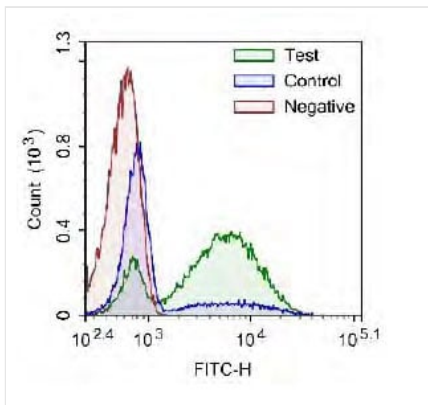
### PRODUCT SYNONYMS

TUNEL Flow Cytometry Apoptosis; One-step TUNEL Flow Cytometry Apoptosis Kit (Blue; EV450); TUNEL Flow Cytometry Apoptosis kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form/Format             | PBS buffer (with 1%BSA) (PH7.2 ~ 7.4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Samples                 | Cell samples                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Detection Instrument    | Flow Cytometry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Dye Type                | Fluor Violet 450                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Channel Set             | Pacific Blue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Detection Principle     | When cells undergo apoptosis, specific DNA endonucleases will be activated, cutting the genomic DNA between the nucleosomes. The DNA of apoptotic cells is cleaved into multimers of 180~200bp fragments, corresponding to the oligonucleosomal size. Therefore, the DNA of apoptotic cells typically migrates as a ladder of 180~200bp on an agarose gel. The exposed 3'-OH of the broken DNA can be catalyzed by Terminal Deoxynucleotidyl Transferase (TdT) with fluorescein labeled dUTP, which can be detected with flow cytometry. |
| Preparation and Storage | Store at -20 degree C, shading light<br>Estimated Expiration: 12 months<br>Shipping: Ice bag                                                                                                                                                                                                                                                                                                                                                                                                                                             |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for TUNEL Flow Cytometry Apoptosis kit | <p>Background: One-step TUNEL Flow Cytometry Apoptosis Kit applies a highly sensitive, fast and simple method to detect cell apoptosis. This kit can be used to detect apoptosis of suspension cells and adherent cells by flow cytometry.</p> <p>Principle of the Assay: When cells undergo apoptosis, specific DNA endonucleases will be activated, cutting the genomic DNA between the nucleosomes. The DNA of apoptotic cells is cleaved into multimers of 180~200bp fragments, corresponding to the oligonucleosomal size. Therefore, the DNA of apoptotic cells typically migrates as a ladder of 180~200bp on an agarose gel. After fixation and permeabilization, the exposed 3'-OH of the broken DNA can be catalyzed by Terminal Deoxynucleotidyl Transferase (TdT) with fluorescein labeled dUTP, and detected by flow cytometry.</p> |
| Product Categories/Family for TUNEL Flow Cytometry Apoptosis 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.

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Online datasheet: <https://stage.aaabiotech.com/kits/tunel-flow-cytometry-apoptosis/178148>