

TUNEL Detection Kit

TUNEL Apoptosis Detection Kit (Green Fluorescence)

CATALOG #
AAA330133

PRODUCT SYNONYMS

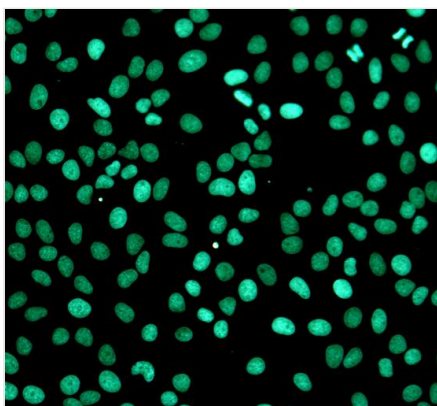
TUNEL; TUNEL Apoptosis Detection Kit (Green Fluorescence); TUNEL detection kit

PRODUCT SPECIFICATIONS

Preparation and Storage

Stable for at least 6 months at -20 degree C from date of shipment. Once opened, refer to list of materials supplied for storage conditions of individual components.

IMAGES



Application Data

Fig. Fluorescence images using AAA Biotech TUNEL Apoptosis Detection Kit (Green Fluorescence) in HeLa cells with the treatment of 10 U/mL Dnase I for 10min.

ADDITIONAL INFORMATION

Related Product Information for TUNEL detection kit

Principle of the Assay: When cells undergo apoptosis, endonuclease enzymes are activated to cleave the genomic DNA between nucleosomes. When genomic DNA is cleaved, the exposed 3'-OH can be added with a fluorescein dUTP (FITC-12-dUTP) due to the catalysis of Terminal Deoxynucleotidyl Transferase (TdT), apoptosis cells can be detected by fluorescence microscopy. This is the principle of TUNEL (TdT-mediated dUTP Nick-End Labeling) for detecting apoptosis. The Enhanced Fluorescein Mix in the kit contains FITC-12-dUTP and fluorescence enhancement factor. The fluorescence enhancement factor can bind to FITC and enhance the stability amplifies of the signal, which makes the fluorescence brighter and has stronger anti-quenching ability

Background/Introduction: The TUNEL Apoptosis Assay Kit is a highly sensitive, rapid and simple method for cell apoptosis detection. The result can be detected by fluorescence microscopy. This kit is developed to detect tissue (Paraffin embedding, freezing and ultrathin section) and cells (Cell smears, cell climbing smears) in situ apoptotic detection.

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.