For Research Use Only

CoraLite®594 TUNEL Assay Apoptosis Detection Kit

Catalog Number: PF00009

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Description

A remarkable feature of apoptosis is the degradation of chromosome DNA, which is a common phenomenon. The degradation is very specific and regular. DNA fragments break into different lengths are of 180 bp-200 bp, showing a specific ladder like ladder pattern in agarose gel electrophoresis. The kit uses TUNEL method and uses Terminal Deoxynucleotidyl Transferase(TdT) catalyzes the incorporation of CoraLite®594-dUTP into the 3´-OH terminal of the broken DNA of apoptotic cells. DNA labeled with CoraLite®594- dUTP can be observed directly by fluorescence microscope or quantified by flow cytometry. TUNEL can selectively detect apoptotic cells rather than necrotic cells or cells with DNA strand breaks caused by irradiation and drug therapy.

Product Information

Components	20T	50T
CL594 TUNEL Reaction Buffer	1 mL	2 × 1.25 mL
TdT Enzyme	40 uL	100 uL
Proteinase K (2 mg/mL)	40 uL	100 uL
DNase I (2 U/ L	5 uL	13 uL
10 X DNase I Buffer	100 uL	260 uL

Note: Due to the upgrade and optimization of some TUNEL series products, the original component "TUNEL Equilibration Buffer" has been removed from some products, which will not affect the effect of the assay, and the step of incubation with equilibration solution can be directly omitted from the TUNEL reaction procedure.

Package

20T/50T

Storage

Store at -20°C. Avoid exposure to light. Stable for 2 years after shipment. Avoid freeze- thaw cycles.

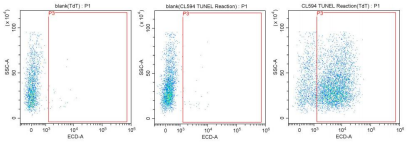
Conjugated

CoraLite®594 mark, CL594 for short, this dye is similar to FITC and other dyes.
Ex/Em: 593/614 nm

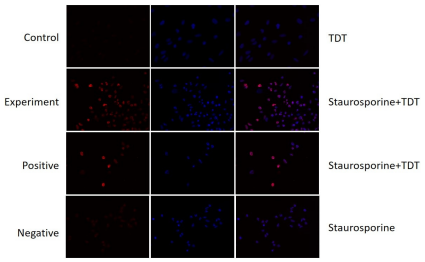
Cautions

TUNEL Reaction Buffer contains toxic and carcinogenic ingredients. Please wear masks and gloves when using it. After contact with the skin, please rinse immediately with plenty of water. Disposal of waste liquid as toxic substances. Please try to avoid light during storage. For your safety and health, please wear lab coats and disposable gloves when operating.

Validation Data



The above experimental results are based on Jurkat cells cultured for three days to perform a flow cytometry experiment to detect the apoptotic cells in the cell sample.



Staurosporine treated HeLa cells for 4 h.

For technical support and original validation data for this product please contact

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