

Product Data Sheet

Product Name: One-step TUNEL Apoptosis Detection Kit (Green, FITC)
Cat. No.: GK10040

Components

Component	20 rxns	50 rxns	100 rxns
5 × Equilibration Buffer	1 mL	2 × 1 mL	4 × 1 mL
FITC-12-dUTP Mix	100 μL	250 μL	2 × 250 μL
TdT Enzyme	20 μL	50 μL	2 × 50 μL
Proteinase K (2 mg/mL)	40 μL	100 μL	2 × 100 μL
DNase I (2 U/μL)	5 μL	13 μL	2 × 13 μL
10 × DNase I Buffer	100 μL	260 μL	2 × 260 μL

Features

Applications	细胞凋亡检测、组织凋亡检测、细胞周期检测、细胞增殖检测、细胞死亡检测、细胞坏死检测、细胞凋亡检测、细胞周期检测、细胞增殖检测、细胞死亡检测、细胞坏死检测
Shipping	常温
Storage	-20°C, 1年
Usage	For Research Use Only! Not For Use in Humans.

Protocol

I. 实验材料

1. 细胞培养

将细胞接种于4%多聚甲醛PBS固定0.2% Triton X-100 PBS清洗

1-2次0.22μm滤膜4°C过夜

2. 透化

0.2% Triton X-100 PBS清洗

3. 封闭

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Product Data Sheet

PBS, ddH₂O, Antifade Mounting Medium with DAPI (Cat.No. GC26283)

II 试剂盒

1. 试剂盒

1.1. 试剂盒

1.1.1. 试剂盒TC 试剂盒 PBS 2

1.1.2. 4% 4°C 25min

1.1.3. PBS 2-3 5min

1.1.4. 0.2% Triton X-100 5min

试剂盒 Triton X-100 Proteinase K 1:100 PBS 2mg/mL Proteinase K 20µg/mL 100µL Proteinase K 5min 15min

1.1.5. PBS 2-3 5min

1.2. 试剂盒

1.2.1. 试剂盒

1.2.2. 1:10 ddH₂O 10×DNase I Buffer 1×DNase I Buffer

1.2.3. 100µL 1×DNase I Buffer 1×DNase I Buffer 5min

1.2.4. 1×DNase I Buffer DNase I(2000U/mL) 20U/mL

1.2.5. 50µL 20U/mL DNase I

1.2.6. 20U/mL DNase I 37°C 10min

1.2.7. PBS 3 5min

试剂盒 DNase I

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1.3. 试剂盒

1.3.1. 试剂盒组成

1.3.2. 1:5 稀释 ddH₂O 5×Equilibration Buffer 1×Equilibration Buffer

1.3.3. 100μL 1×Equilibration Buffer 1×Equilibration Buffer 5-10min

1.3.4. 试剂盒组成

ddH₂O 35μL 34μL

5×Equilibration Buffer 10μL 10μL

FITC-12-dUTP Mix 5μL 5μL

TdT Enzyme 0 1μL

1.3.5. 试剂盒组成

试剂盒组成: 5cm² 50μL 50μL TdT

1.3.6. 37°C 60min

1.3.7. PBS 2 5min

试剂盒组成: PBS 0.1% Triton X-100 5mg/mL BSA PBS 3 5min

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1.3.8 Antifade Mounting Medium with DAPI (Cat.No. GC26283)

1.3.9 Antifade Mounting Medium with DAPI

1.3.10 492/517nm; 356/451nm DAPI

2.

2.1.

2.1.1. 2×10^6 cells/mL PBS 50-100 μ L

2.1.2. 4% 4°C 25min

2.1.3. PBS 2-3 5min

2.1.4. 0.2% Triton X-100 5min

Triton X-100 Proteinase K 1:10 PBS 2mg/mL
Proteinase K 20 μ g/mL 100 μ L Proteinase K
5min

2.1.5. PBS 2-3 5min

2.1.6.

2.2.

2.2.1.

2.2.2. 1:10 ddH₂O 10×DNase I Buffer 1×DNase I Buffer

2.2.3. 100 μ L 1×DNase I Buffer 5min

2.2.4. 1×DNase I Buffer DNase I(2000U/mL) 20U/mL

2.2.5. 100 μ L 20U/mL DNase I

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2.2.6. 37°C 10min

2.2.7. PBS 3 5min

DNase I

2.3.

2.3.1.

2.3.2. 1:5 ddH₂O 5×Equilibration Buffer 1×Equilibration Buffer

2.3.3. 100μL 1×Equilibration Buffer 5-10min

2.3.4.

ddH₂O 35μL 34μL

5×Equilibration Buffer 10μL 10μL

FITC-12-dUTP Mix 5μL 5μL

TdT Enzyme 0 1μL

2.3.5. 50μL

5cm² 50μL 50μL TdT

2.3.6. 37°C 60min

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2.3.7 用 PBS 冲洗 2 次，每次 5min。

注：用 PBS 冲洗 0.1% Triton X-100 5mg/ml BSA 3 次，每次 5min。

2.3.8 用 Antifade Mounting Medium with DAPI (Cat.No. GC26283)

2.3.9 用 Antifade Mounting Medium with DAPI 封片。

2.3.10 激发/发射 492/517nm 激发/发射 356/451nm DAPI 对照

3. 实验步骤

3.1. 实验步骤

3.1.1. 用 PBS 冲洗 2 次，每次 5-10min。

注：用 PBS 冲洗 20°C 20min。

3.1.2. 用 PBS 冲洗 2 次，每次 5min。

3.1.3. 用 90%、80%、70% 乙醇 1 次，每次 3min。

3.1.4. 用 PBS 冲洗。

3.1.5. 用 1:100 的 PBS 2mg/mL Proteinase K 20μg/mL 100μL Proteinase K 37°C 15-30min (蛋白酶 K 处理)。

注：用 Proteinase K 处理。

3.1.6. 用 PBS 冲洗 2-3 次，每次 5min。

注：用 Proteinase K 处理。

3.2. 用 3.3 节中的 2.2 和 2.3

4. 实验结果

4.1. 实验结果

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4.1.1. 20min

4.1.2. 4% 30min

4.1.3.

4.1.4. PBS 2 5min

4.1.5. 100µL 0.2% Triton X-100 15-30min
1:100 PBS 2mg/mL Proteinase K 20µg/mL 100µL
Proteinase K 37°C 10-30min

Proteinase K

4.1.6. PBS 2-3 5min

Proteinase K

4.2. 4.3 2.2 2.3

III

1. 5×Equilibration Buffer / PAP Pen
2. 5×Equilibration Buffer
3. FITC-12-dUTP Mix TdT Enzyme FITC-12-dUTP Mix TdT Enzyme -20°C
4. DNase I
- 5.
- 6.
- 7.
- 8.

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1. 将细胞悬液离心，弃去上清液，用 PBS pH7.4 洗 2 次。

2. 将细胞悬液离心，弃去上清液，用 PBS pH7.4 洗 2 次。

3. 将细胞悬液离心，弃去上清液，用 PBS pH7.4 洗 2 次。

4. 将细胞悬液离心，弃去上清液，用 PBS pH7.4 洗 2 次。

5. 将细胞悬液离心，弃去上清液，用 PBS pH7.4 洗 2 次。

6. 将细胞悬液离心，弃去上清液，用 PBS pH7.4 洗 2 次。

7. 将细胞悬液离心，弃去上清液，用 PBS pH7.4 洗 2 次。

8. 将细胞悬液离心，弃去上清液，用 PBS pH7.4 洗 2 次。

9. 将细胞悬液离心，弃去上清液，用 PBS pH7.4 洗 2 次。

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Proteinase K 100mg/ml

0.2% Triton X-100 1~2ml

DNase I 100U/ml

1. Proteinase K
 2. DNase I
- TESPA
FITC-12-dUTP

Background

GlpBio One-step TUNEL Apoptosis Detection Kit (Green, FITC) for DNA Ex/Em = 492/517nm

DNA 180-200bp 3'-OH DNA 3'-OH TdT dUTP DNA 3'-OH

Proteinase K

DNase I

1. Proteinase K (2mg/ml)
2. DNase I (2U/μL) 10×DNase I Buffer
3. 5×Equilibration Buffer FITC-12-dUTP Mix TdT Enzyme

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