

合肥万物生物科技有限公司 HEFEI WANWU technology CO., LTD

细胞荧光 tunel 绿光实验报告

1.实验器材及试剂

1.1 实验器材

	厂家	 型号
载玻片	Wanwu	
涡旋混合器	Wanwu	MX-F
掌上离心机	Wanwu	D1008E
脱色摇床	Wanwu	TSY-B
移液枪	Dragon	KE0003087/KA0056573
组化笔	Wanwu ⊟	WG1066-1
正置荧光显微镜	本尼康日	NIKON ECLIPSE C1
成像系统	本尼康	NIKON DS-U3

1.2 主要实验试剂

试剂	厂家	
PBS 缓冲液	Wanwu	G0002
破膜工作液	Wanwu	G1204
Tunel 试剂盒	Wanwu	G1501
DAPI	Wanwu	G1012
抗荧光淬灭封片剂	Wanwu	G1401

2.细胞爬片荧光 tunel 实验步骤

- 2.1 细胞破膜: 爬片稍甩干后用组化笔在盖玻片中间细胞分布均匀的位置画圈 (防止抗体流 走),加 50-100 μl 破膜工作液,室温孵育 20 min, PBS 洗 3 次,每次 5 min。
- 2.2 室温平衡: 爬片稍甩干后在圈内滴加 buffer 覆盖组织, buffer 常温孵育 10min.
- 2.3 加反应液: 按爬片数量大小取 tunel 试剂盒内适量 TDT 酶 ,dUTP, buffer 按 1:5:50 比例 混合,加到圈内覆盖细胞,爬片置于37℃恒温箱孵育2小时。
- 2.4 DAPI 复染细胞核: 爬片用 PBS (PH7.4) 洗涤 3 次,每次 5min。去除 PBS 后在圈内滴 加 DAPI 染液, 避光室温孵育 10min。
- 2.5 封片: 爬片用 PBS (PH7.4) 洗涤 3 次,每次 5min。爬片稍甩干后将有细胞的一面朝下

网址:http://www.wanwusw.com 细胞网址:http://www.hfwanwu.com



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用抗荧光淬灭封片剂将玻片封固在载玻片上封片。

2.6 镜检拍照:切片于荧光显微镜下观察并采集图像。(DAPI紫外激发波长 330-380nm,发 射波长 420nm, 发蓝光; FITC 激发波长 465-495nm, 发射波长 515-555 nm, 发绿光; CY3 激发波长 510-560, 发射波长 590nm, 发红光)。

3.细胞爬片荧光 tunel 结果判读

DAPI 染出来的细胞核在紫外的激发下为蓝色,试剂盒为 FITC 荧光素标记,阳性凋亡细胞 核为绿色。

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cell (fitc) Tunel assay protocol (cell climbing slides)

1. Apparatus and reagents

1.1 Apparatus

Name	Producer	Model
Glass microscope slide	Wanwu	
Vortex	Wanwu	MX-F
Micro-centrifuge	Wanwu	D1008E
Rocker	Wanwu	TSY-B
Pipettor	Dragon	KE0003087/KA0056573
Liquid blocker pen	Wanwu	WG1066-1
Ortho-Fluorescent	Nikon	NIKON ECLIPSE C1
Microscopy		
Imaging system	Nikon	NIKON DS-U3

1.2 Major reagents

Name	Producer	Model
PBS solution	Wanwu	G0002
Permeabilize solution	Wanwu	G1204
DAPI	Wanwu	G1012
anti-fade mounting medium	Wanwu	G1401
Tunel assay kit	Wanwu	G1501

2.Procedure

- 2.1 Permeabilization: dry the cell climbing slides slightly. Mark the objective area with liquid blocker pen, where add $50\text{-}100~\mu l$ of permeabilize working solution. Incubate for 20~min at room temperature. Wash three times with PBS solution, 5~min each.
- 2.2 Equilibrium at room temperature: After the slices are slightly dried, buffer is added to the tissues in the circle, and the buffer is incubated at room temperature for 10 minutes
- 2.3 Tunel reaction: Take appropriate amount of TDT enzyme, dUTP and buffer in the tunel kit

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according to the number of slices and tissue size and mix at 1:5:50 ratio. Prepare this reaction solution according to demand before use. Add this mixture to objective tissue placed in a flat wet box, incubate at 37°C for 2 h. be sure to keep the wet box moist by adding water

- 2.4 DAPI counterstain in nucleus: wash three times with PBS (pH 7.4) in a Rocker device, 5 min each. Then incubate with DAPI solution at room temperature for 10 min, kept in dark place.
- 2.5 Mount: wash three times with PBS (pH 7.4) in a Rocker device, 5 min each. Throw away liquid slightly, then coverslip with anti-fade mounting medium.
- 2.6 Microscopic examination and collecting images through fluorescence microscope. DAPI emits blue light at an ultraviolet excitation wavelength of 330-380 nm and an emission wavelength of 420 nm; FITC has an excitation wavelength of 465-495 nm and an emission wavelength of 515-555 nm, and emits green.

3.Results

Nucleus is blue by labeling with DAPI. Tunel assay kit is from Roch and labelled with FITC. Positive apoptosis cells are green.

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