

Actin-Tracker Green(微丝绿色荧光探针)

产品编号	产品名称	包装
C1033	Actin-Tracker Green(微丝绿色荧光探针)	0.2ml

产品简介:

- Actin-Tracker Green是一种Actin绿色荧光探针，可以用于培养细胞或组织切片的Actin特异性荧光染色。
- Actin-Tracker Green探针为荧光染料FITC标记的毒蕈肽(phalloidin)，即phalloidin-FITC，其分子量约为1251.4，最大激发波长为496nm，最大发射波长为516nm。
- 本产品可以用于细胞或组织内的微丝(microfilament)的荧光检测。HeLa细胞使用本产品染色的效果参见图1。

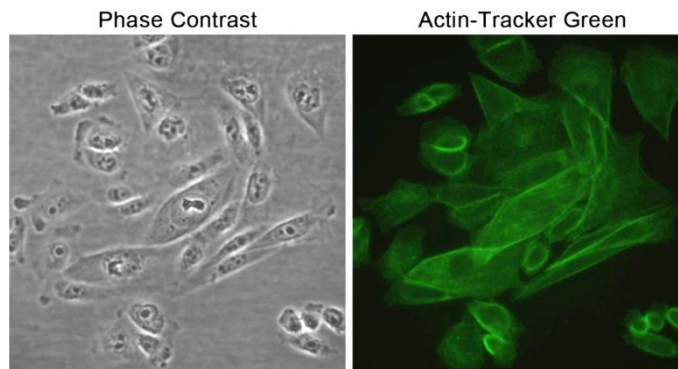


图1. HeLa细胞使用本产品的染色效果图。图中可见微丝的绿色细丝状形态的染色。图中的染色实验在六孔板中进行，Actin-Tracker Green的稀释比例为1:100。本图仅作参考，不同的样品不同的检测条件，实际获得的结果可能有所差别。

- 本产品使用时的推荐稀释比例为1:40-1:200。如果每个片子需要使用200 μ l染色工作液，每个包装的本产品足够用于40-200个片子的染色。

包装清单:

产品编号	产品名称	包装
C1033	Actin-Tracker Green	0.2ml
—	说明书	1份

保存条件:

-20 $^{\circ}$ C避光保存，一年有效。

注意事项:

- 为避免反复冻融，建议适当分装。
- 对于微量的液体，每次使用前先离心数秒钟，使液体充分沉降到管底。
- 荧光染料均存在淬灭问题，请尽量注意避光，以减缓荧光淬灭。
- 需自备盖玻片和载玻片(可以向碧云天订购)。
- Phalloidin 有一定毒性(LD50 为2 mg/kg体重)，1ml Actin-Tracker Green中的phalloidin少于0.2mg，使用时请注意适当防护。
- 本产品仅限于专业人员的科学研究用，不得用于临床诊断或治疗，不得用于食品或药品，不得存放于普通住宅内。
- 为了您的安全和健康，请穿实验服并戴一次性手套操作。

使用说明:

- 固定细胞或组织切片的荧光染色:
 - 用PBS洗涤细胞或组织切片2次。
 - 用碧云天的免疫染色固定液(P0098)或PBS配制的3.7%甲醛溶液室温固定细胞或组织切片约10分钟。**注意:** 甲醇可以破坏actin蛋白，因此不能使用含有甲醇的固定液。并且尽量使用不含甲醇的甲醛。
 - 用碧云天的免疫染色洗涤液(P0106)或含0.1% Triton X-100的PBS洗涤2-4次，每次约5分钟。
 - 用碧云天的免疫荧光染色二抗稀释液(P0108)或含有1-5%BSA和0.1% Triton X-100的PBS按照1:40-1:200的比例稀释Actin-Tracker Green，例如5 μ l或25 μ l Actin-Tracker Green用1ml稀释液稀释，稀释后的溶液即为Actin-Tracker Green染色工作液。

液。**注：**稀释比例可以根据实际染色效果进行适当调整。

- e. 把Actin-tracker Green染色工作液按照每个片子约200 μ l的比例滴加到片子上，室温避光孵育20-60分钟。为防止蒸发，孵育时最好将片子置于载玻片染色盒中，载玻片染色盒(FSR958)可以向碧云天订购。
 - f. 用碧云天的免疫染色洗涤液(P0106)或含0.1% Triton X-100的PBS洗2-4次，每次约5分钟。
 - g. 随后可以直接用荧光显微镜进行观察。为长期保存，可以在片子自然干燥后封片并于4 $^{\circ}$ C避光保存，保存时间可长达6个月左右。
2. 对于活细胞的荧光染色：
Phalloidin通常不具有细胞通透性，因此极少用于活细胞染色。但也有报道活细胞可被标记，可能是通过细胞的吞噬作用进入了某些细胞。一般对于活细胞的染色需要更多的染料。

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