

天狼星红染色液

产品简介:

胶原纤维(Collagen Fiber)是结缔组织中分布最广含量最多的一种纤维,广泛分布于各种脏器,其中皮肤、巩膜、肌腱最丰富,Ⅰ型胶原纤维主要是骨、皮肤、肌腱纤维;Ⅱ型胶原纤维主要是软骨胶原;Ⅲ型胶原纤维主要在胚胎组织、成人血管、胃肠道;Ⅳ型胶原纤维主要在基膜中。天狼星红与其衬染液都是强酸性染料,易与胶原分子中的碱性基团结合,吸附牢固,偏振光镜检查,胶原纤维有正的单轴双折射光的属性,与天狼星红复合染色液结合后,可增强双折射,提高分辨率,从而区分两型胶原纤维。

Leagene 天狼星红染色液套装由苏木素染色液、天狼星红染色液组成,主要用于各种组织病变时对胶原纤维异常或纤维增生的研究,在普通光学显微镜下心脏血管等组织的胶原纤维被染成红色,在偏振光镜下对各种纤维化病变的分型和分级研究有一定的帮助作用,采用免疫组化技术也可显示Ⅰ型和Ⅲ型胶原纤维,但所用抗体昂贵,操作费时,而采用天狼星红染色试剂便宜,操作简单。该试剂仅用于科研领域,不适用于临床诊断或其他用途。

产品组成:

名称 \ 编号	DC0041 2×50ml	DC0041 2×100ml	Storage
试剂(A): 苏木素染色液	50ml	100ml	RT
试剂(B): 天狼星红染色液	50ml	100ml	4℃ 避光
使用说明书	1 份		

自备材料:

- 1、10%福尔马林固定液(10% NBF)、梯度乙醇、环保浸蜡脱蜡透明液或二甲苯、中性树胶
- 2、普通光学显微镜、偏振光显微镜

操作步骤(仅供参考):

- 1、组织固定于 10%福尔马林固定液,常规脱水包埋。
- 2、切片厚 3~8μm,常规二甲苯或 Leagene 环保浸蜡脱蜡透明液脱蜡至水。
- 3、苏木素染色液滴染 3~10min,水洗 30~120s。
- 4、天狼星红染色液滴染 10~60min,较易上色组织染色 10~20min。
- 5、流水稍微冲洗,去除切片表面染色液。
- 6、95%乙醇脱水 1min,无水乙醇脱水 2 次,每次 1min,二甲苯或 Leagene 环保浸蜡脱蜡透明液透明 2 次,每次 1min,中性树胶封固。镜检。

染色结果:

普通光学显微镜:

胶原纤维	红色
肌纤维 血细胞	黄色
细胞核	蓝褐色至黑色

偏振光显微镜:

I 型胶原纤维	强橙黄色或亮红色
III型胶原纤维	绿色

注意事项:

- 1、为使在偏振光镜下显示清晰，本法的切片厚度以 6~7 μ m 为宜。
- 2、不进行苏木素染色，细胞核着浅红色，胶原纤维和肌纤维的对比更好。
- 3、天狼星红染色后不宜在低浓度乙醇中长时间处理，否则肌纤维的黄色易被脱掉。
- 4、为了您的安全和健康，请穿实验服并戴一次性手套操作。

有效期: 12 个月有效。常温运输，按要求保存。

相关产品:

产品编号	产品名称
CA0075	青霉素-链霉素混合溶液(100 $\times$ 双抗)
DC0032	Masson 三色染色液
DG0005	糖原 PAS 染色液
DF0111	组织固定液(10% NBF)
DH0006	苏木素伊红(HE)染色液(醇溶)
DZ2011	环保浸蜡脱蜡透明液
PS0013	RIPA 裂解液(强)
TC0713	葡萄糖检测试剂盒(GOD-POD 比色法)

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