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黏蛋白染色试剂盒(温和甲基化法)

货号： G2051
规格： 2×50mL
保存： 室温，避光保存，有效期 6 个月。

产品组成：

名称	2×50mL	保存
试剂(A):酸性醇溶液	50mL	室温
试剂(B): Alcian 染色液	50mL	室温，避光

产品介绍：

黏蛋白染色试剂盒(温和甲基化法)属于化学修饰和阻断法的一种，其原理是利用酸性醇溶液消除 COOH 的嗜碱性。

Alcian 染色液 pH 值为 2.5 时，组织内的羧基电离，带有一个负电荷，与阿利新蓝中的阳离子形成盐键，使带有羧基的组织(如蛋白多糖/透明质酸以及上皮酸性黏蛋白)染色，主要用于鉴别黏蛋白中的酸性基团。

自备材料：

系列乙醇 、恒温箱 、蒸馏水、去离子水

操作步骤：(*仅供参考*)

1. 两张阳性对照片和两张实验切片均脱蜡至水。
2. 将一张阳性对照片和一张实验片入酸性醇溶液，37℃孵育 4h。另外的一张阳性对照片和一张实验片仅用去离子水 37℃孵育 4h。 流水冲洗 5min。
3. Alcian 染色液染色 15-30min。 流水冲洗。
4. 梯度乙醇脱水，二甲苯透明，中性树胶封片。

染色结果：

未处理的硫酸黏蛋白、硫酸蛋白多糖、唾液粘蛋白、透明质酸	蓝色
处理后的切片	淡蓝色

注：处理后的残存的任何颜色都是由于存在硫酸黏蛋白和(或)硫酸蛋白多糖。

注意事项：

1. 处理时间超过 4h 有可能导致硫酸根水解。
2. 需要阳性对照片以便验证甲基化程序的有效性。
3. 为了您的安全和健康，请穿实验服并戴一次性手套操作。

Mucin Stain Kit(Mild Methylation Method)

Cat: G2051
Size: 2×50mL
Storage:RT, avoid light, valid for 6 months.

Kit Components

Reagent	2×50mL	Storage
Reagent (A): Acid Alcohol Solution	50mL	RT
Reagent (B): Alcian Solution	50mL	RT, avoid light

Introduction

Mucin Stain Kit(Mild Methylation Method) is a kind of chemical modification and blocking method. Its principle is to eliminate the basophil of COOH by Acid Alcohol Solution.

When the pH value of Alcian Solution is 2.5, the carboxyl group in the tissue is ionized with a negative charge, forming a salt bond with the cation in alcian blue, making the carboxyl group in the tissue (such as proteoglycan / hyaluronic acid and epithelial acid mucin) stained, mainly used to identify the acid group in mucin.

Self Provided Materials

Series of ethanol, Distilled water, Deionized water, Incubator.

Protocol(*for reference only*)

1. Dewax the two positive control sections and two experimental sections to water.
2. Put one positive section and one experimental section into Acid Alcohol Solution and incubate at 37 ℃ for 4 hs. Another one positive section and experimental section incubate with deionized water at 37 ℃ for 4 hs.
3. Rinse with running water for 5mins.
4. Stain with Alcian Solution for 15-30mins.
5. Rinse with running water.
6. Dehydrate in series of ethanol and transparent by xylene, then seal with resinene.

Result

Untreated sulfated mucin, sulfated proteoglycan, salivary mucin, hyaluronic acid	Blue
Treated section	Light Blue

Note: any remaining color after treatment is due to the presence of sulfated mucin and / or sulfated proteoglycan.

Note

1. If the treatment time is more than 4 hs, it may lead to hydrolysis of sulfate.
2. A positive control section is required to verify the effectiveness of the methylation procedure.
3. For your safety and health, please wear experimental clothes and disposable gloves.