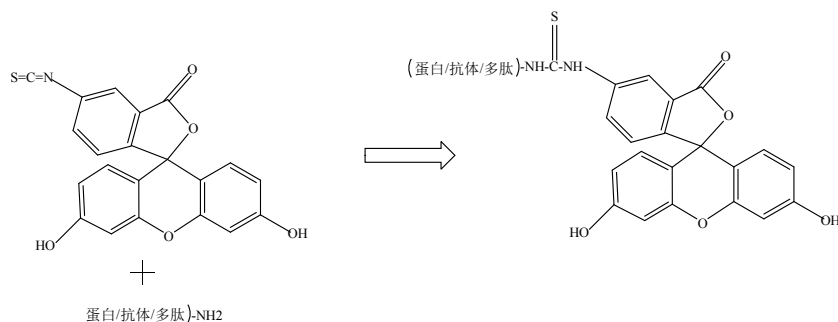


FITC-Antibody Conjugation Kit

Cat No: B1OK1967

Description

Fluorescein-labeled antibody is abbreviated as fluorescent antibody (FA), which is currently widely used in immunopathology, cytochemistry, flow cytometry, virology and autoantibody clinical immunodiagnosis of specific, sensitive, qualitative and localized immune Chemical reagents. Antibodies used for labeling require high specificity and high affinity. The antiserum used should not contain antibodies against normal tissues in the specimen. Generally, IgG and IgM need to be purified and extracted before labeling.

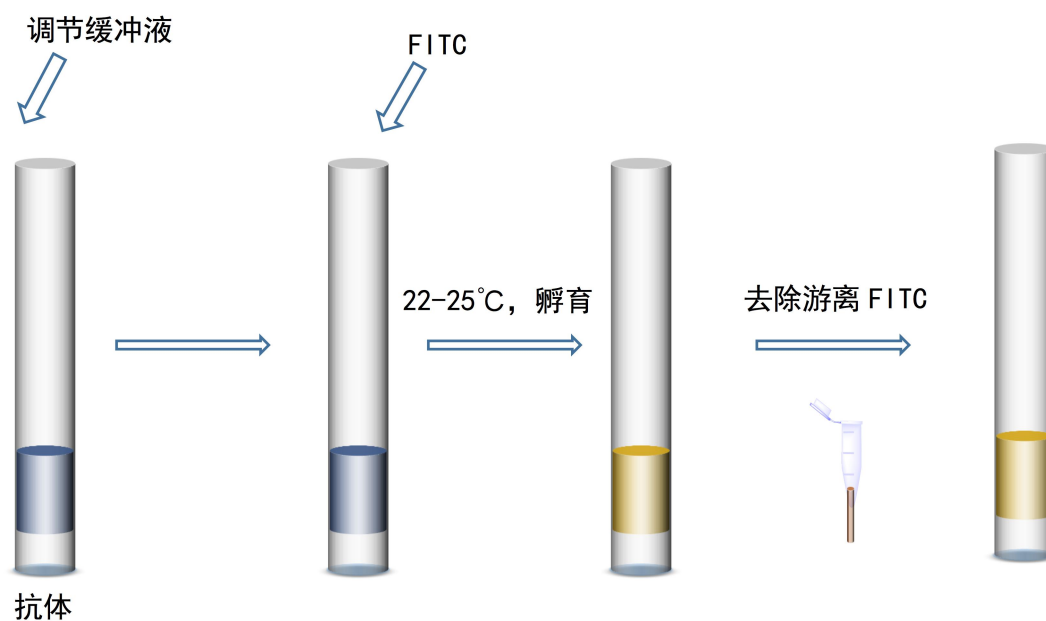


The fluorescein in this kit uses high-quality imported fluorescein isothiocyanate (FITC). The principle of FITC-labeled antibody is to use the $\text{N}=\text{C}=\text{S}$ group on FITC and the free $-\text{NH}_2$ on the antibody to chemically form FITC-Antibody conjugates. There are 86 lysine residues in an IgG molecule, and generally can bind 15-20 at most, and an IgG molecule can bind 2-8 molecules of FITC.

PRODUCT INFORMATION

Size: 100 ug

FITC	1 vial (Protect from light)
Buffer	50 ul
DMSO	150 ul
Purification Column	2 vial
Collection Tube	2 vial



Steps

1. Antibody preparation

1.1. 建议抗体浓度在 1-2mg/ml 之间。

Note: 抗体中不要含有 BSA 或其它蛋白质成分。

抗体缓冲液中不要含有氨基的盐（如：Tris, NaN₃ 等），pH 在 6.5-8.5 为宜。

2. Antibody labeling

- 2.1. 取出 FITC 离心数秒，将管中 FITC 干粉甩至管底；
- 2.2. 管中加入 100 ul DMSO 用移液枪反复吹打或 vortex 混匀至 FITC 完全溶解；
- 2.3. 抗体中加入适量调整缓冲液（每 100ul 抗体中加入 10ul 调整缓冲液）；
- 2.4. 将溶解后的 FITC 加入抗体中（每 100ug 抗体中加入 2.0-4.0ul FITC），用移液枪反复吹打或 vortex 混匀。
- 2.5. 将抗体-FITC 混合物置水平摇床或旋转混匀仪，在摇动状态下室温避光（反应管可包裹锡箔纸）反应 1h。

注： 如果需要较高 F/P 值，可适当延长抗体和 FITC 偶联时间。

3. Free FITC removal

- 3.1. 取出纯化柱，将纯化柱 3000rpm 离心 2min。
- 3.2. 暂时保留收集管中的缓冲液。
- 3.3. 将纯化柱移至新的收集管上，吸取抗体-FITC 偶联物置纯化柱中填料的表面。如果样品体积小于 50ul，应先用 3.2 保留的缓冲液将液体量补足 50ul。上样体积最大不要超过 100ul。
- 3.4. 待样品渗入填料后，3000rpm 离心 2min。
- 3.5. 将抗体-FITC 标记物 4℃避光保存待用，终产品可 4℃可避光保存 1 年。

NOTES

1. Store the kit at 2-8℃, do not freeze.
2. The components of the kit may be upside down during transportation, causing liquid or dry powder reagents to stick to the tube wall or bottle cap. Please centrifuge before use to make the liquid or dry powder reagent attached to the tube wall or bottle cap settle to the bottom of the tube.
3. FITC needs to be prepared for immediate use, and the dissolved FITC cannot be stored for a long time.
4. The buffer in the purification column contains the toxic component sodium azide

(NaN₃). Avoid contact with skin, eyes and mucous membranes when using it.

5. DMSO is slightly toxic, permeable to human skin and irritating to the eyes. Avoid contact with skin, eyes and mucous membranes when using it.

6. The dialysis, concentration and concentration determination of the antibody before labeling will all cause the loss of the amount of antibody. Therefore, when preparing the antibody before labeling, consider the most appropriate amount of antibody according to the specific situation.

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