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Allophycocyanin Labeling Kit-NH₂

Item# Unit Size
LK21-10 3 samples (labeling 100 ug)



Only 3 hours to get conjugates

All processes in a single Filtration tube

High recovery of conjugates

Applicable for 50-200 µg IgG

Contents of the Kit

NH₂-reactive APC :3 tubes WS buffer :4 ml x 1 bottle

Reaction buffer :200 µl x 1 tube Filtration tube :3 tubes

*APC: Allophycocyanin

Storage Condition: 0-5°C

Shipping Condition: with blue ice

Required Equipment and Materials

Microcentrifuge, 10 µl and 100-200 µl adjustable pipettes, 37°C incubator, 0.5 ml microtubes

Product Description

Phycobiliproteins are fluorescent proteins derived from cyanobacteria and eukaryotic algae. Their fluorescence is much higher than chemical fluorescent probes such as fluorescein and rhodamine. Allophycocyanin (APC) is one of the phycobiliproteins, and it has a red fluorescence at around 660 nm (Fig. 1). Because of this high fluorescence, phycobiliprotein-labeled antibodies and other molecules can provide greater sensitivity in flow cytometry and immunostaining. Allophycocyanin Labeling Kit-NH₂ is for simple and rapid preparation of APC-labeled IgG (Fig. 2). NH₂-reactive APC (a component of this kit) has an activated ester group and can easily make a covalent bond with an amino group of the target molecule without any activation process. The filtration tube in this kit is used for buffer exchange and concentration of sample IgG solution. This kit contains all the reagents necessary for APC labeling including the storage buffer for conjugates.



CERTIFICATE NO. 82423

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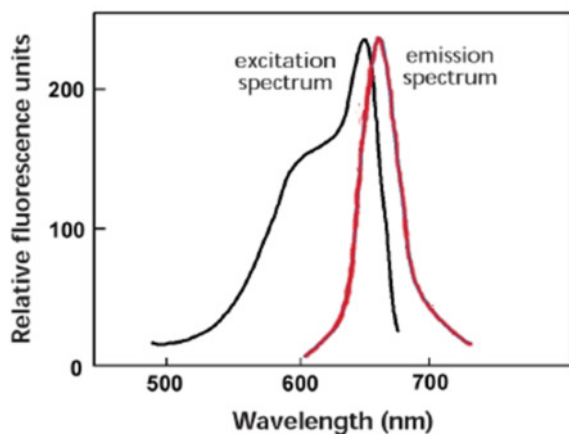


Fig. 1 Fluorescence spectrum of APC
Excitation wavelength: 650 nm
Emission wavelength: 660 nm

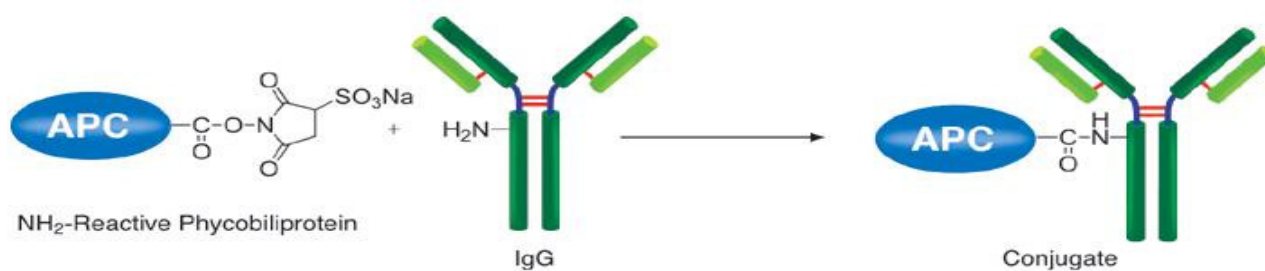


Fig. 2 IgG labeling reaction of NH₂-reactive APC

Precaution

- ◆ The molecular weight of the protein to be labeled with this kit should be greater than 50,000.
- ◆ IgG or allophycocyanin-conjugated IgG is always on the membrane of the filtration tube during the labeling process.
- ◆ If the IgG solution contains other proteins with molecular weight greater than 10,000, such as BSA or gelatin, purify the IgG solution before labeling allophycocyanin with this kit. IgG solution can be purified by IgG Purification Kits (not included in this kit).
- ◆ If the IgG solution contains small insoluble materials, centrifuge the solution and use the supernatant for the labeling.