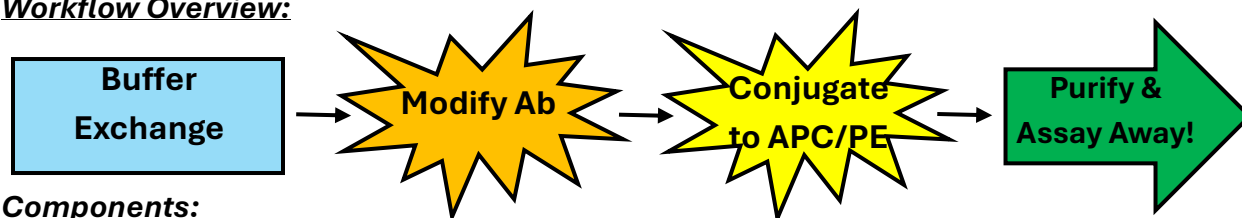


Quick Color APC/PE Antibody Labeling Kit: Catalog # QCL-APC/PE

Introduction: Welcome to the quick color antibody labeling kit product line. *These kits are intended to label between 50-100 μ g of BSA / carrier protein free antibody with APC/PE at a starting concentration of 0.5-1.0 mg/mL.* In just a short number of steps, you will have a conjugated antibody ready for your assays. Let's get started!

STOP! Please make sure your buffers are free of the following: BSA or other carrier proteins such as gelatin and no supernatants.

Workflow Overview:**Components:**

Part	Description	Storage
1 x Blue Column	Column for Buffer Exchange	4C°
1 x Red Column	Column for Final Purification	4C°
1 x Green Column	Column for Conjugation	4C°
5 x Empty Spin Column	Empty Spin Columns for elution	Ambient or 4C°
1 x Antibody Mod Tube	Ready to react modifying reagent	-20C°
1 x Linking Buffer Tube	Buffer for linking reaction to APC/PE	4C°
1 x APC/PE Tube	APC/PE ready to be linked to antibody	4C°

Protocol:

NOTE: ALL COLUMN SPINS ARE DONE FOR 2 MINUTES AT 1500 RCF.

1. Prep the **blue column** by breaking off the bottom tab, loosening the cap, and spin down at 1500 rcf in a benchtop centrifuge for 2 minutes. The column resin should be white.
2. Discard the flow-through and place the capless tube back with the **blue column**.
3. Place your BSA / carrier protein-free antibody directly onto the **blue column** resin and spin down.

Email: matt@731bio.com

Website: www.731bio.com

4. Add the antibody flow through directly to the antibody mod tube, mix well by vortex or repeat pipetting, and react for 60 minutes at room temperature.
5. Around the 45-minute mark, prep the **green column** by spinning down per the **note**. Discard the flow through and place the capless tube back with the **green column**.
6. After 60-minute incubation, take your **green column** and load your modified antibody directly onto the resin. Spin down per the **note**.
7. Take the flow through and add directly to the APC/PE Tube (this will now contain the APC/PE + your modified antibody).
8. Add 15 µL of buffer from the **Linking Buffer Tube** to the APC/PE tube from step 7. Incubate for 60 minutes at room temperature.
9. Around the 45-minute mark, prep the **red column** by spinning down per the **note**. Discard the flow through and place the capless tube back with the **red column**.
10. After the 60-minute incubation, load your antibody/APC/PE/link buffer mixture onto the **red column** and spin down per **note**.
11. Your antibody-APC/PE conjugate is now ready to use in an assay. Standard antibody recovery is over 85% and commonly over 90% with an Ab concentration around 0.6-0.8 mg/mL assuming a starting concentration of 1.0 mg/mL. Store at 4C° in the dark. **For longer term storage, it is recommended to use an amber screw cap tube with an O-ring as evaporation may occur in microcentrifuge tubes.**

Supporting Data:

Product	Catalog #	Peak Excitation (nm)	Peak Emission (nm)	Molar Extinction Coefficient M ⁻¹ cm ⁻¹ at 280nm
PE Kit	QCL-PE	498/566*	573	1.96 x 10 ⁶
APC Kit	QCL-APC	652	657	7.0 X 10 ⁵

**Note: R-PE has multiple absorption peaks*

Disclaimer: RESEARCH USE ONLY. NOT FOR HUMAN OR ANIMAL THERAPEUTIC OR DIAGNOSTIC USE.

This kit is intended for research purposes only. It should be handled by trained laboratory personnel in accordance with established safety procedures. Refer to the Safety Data Sheet (SDS) for detailed information on handling, storage, and disposal. This product is not intended for use in diagnostic procedures on humans or animals, nor for therapeutic applications.

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