Cell IDx

Cell IDx 'RightON' Fluor and Biotin Antibody Labeling Kits

Description: Ultra-rapid 'mix and use' kits to incorporate optimal range of fluor or biotin on 50-100 µg of antibody. Optional final purification step included.

Cat. No.:

Labels	Cat#	Absorbance (nm)	Emission (nm)	Extinction Coefficient (M-1cm-1)
Biotin-Peg4	ROA-XXX			
CL490	ROC-XXX	491	515	73,000
CL550	ROD-XXX	550	575	150,000
CL594	ROE-XXX	594	615	92,000
CL650	ROF-XXX	655	676	250,000
FITC (FAM)	ROK-XXX	488	490	70,000

Application: The Cell IDx ***'RightON'*** fluor and biotin antibody labeling kits have been developed to modify 50-100 µg of purified antibody @ 0.5-1.0 mg/mL incorporating the optimal range of fluors or biotin in 10 min. Ultra-rapid, 'mix and use' protocol.

- ***The kit also includes a ready-to-use spin filter to rapidly remove >80% of excess dye or biotin from final conjugate, with minimal loss, if desired.***
- All components are included in each kit
- Available labels include: biotin, FITC (FAM), CL405, CL490, CL550, CL594, CL650
- The only equipment needed are a pipette and a microcentrifuge for the optional excess dye removal step if desired
- Please ensure your antibodies for labeling are at 0.5-1.1mg/ml in buffer free of extraneous proteins such as BSA, serum or gelatin. Antibody formulations containing azide, trehalose or other sugars are acceptable. No tris buffer.

Components:

Kit Part	Quantity	Description
A	1	Modifier Tube
B	1	CellLight labeling reagent with lyophilized dye or Peg4-biotin for modification of 50-100 µg protein at 0.5-1.0 mg/mL. **NOTE: IMMEDIATELY place and store biotin/dye @<-20°C**
C	1	Red-capped desalting column to buffer exchange fluor- or biotin-modified antibody product into PBS + 15 mM sodium azide with collection tubes **NOTE: Store columns @4°C**
D	1	Final Buffer Tube

Storage: Fluor and biotin tubes @ -20°C, other components @ 2-8°C
Shelf-Life: 12 months

Protocol:

- Optimized for 50-100 µg of antibody @ 0.5-1.0 mg/mL.
- ***Antibody needs to be protein carrier free, i.e., no gelatin, BSA, serum, etc.***
- ***No Tris buffer***

Antibody Preparation

1) Add 1/10 volume of 10X modifier directly to your antibody tube (*i.e.* for 100 µl of antibody, add 10 µl of modifier).

Labeling with fluor or biotin

2) Add antibody solution to the biotin/dye tube, mix thoroughly with pipette or vortex. Incubate in the dark at room temperature for 10 minutes.

Final buffer step

3) After the 10-minute incubation is complete, add 90 µL final buffer diluent to biotin/fluor-labeled antibody, vortex, and it is now ready to use in your assay! ***Final antibody concentration is ~0.25-0.5 mg/mL, depending on starting concentration.***

Notes

- For biotin conjugation it is highly recommended for optimal performance to proceed to the PURIFICATION STEP below following the 10-minute incubation with final buffer.

Optional Purification Step

(a) PBS/azide desalting column preparation - Break off bottom of RED-capped column and loosen the RED cap, place column in a collection tube, then place in microcentrifuge and spin for 2 minutes @1500 g. Discard flow through.
(b) Transfer probe labeled mixture to the RED-capped column, place column in a new collection tube and centrifuge for 2 minutes @1500 g.
(c) Transfer desalted fluor labeled antibody to a new capped tube for 4^0C storage and you now have a dye/biotin free, labeled sample ready to use in your assay!