

For Research Use Only

FlexAble CoraLite® Plus 647 Antibody Labeling Kit for Rabbit IgG

Catalog Number: KFA003



Product Information

FlexAble CoraLite® Plus 647 Antibody Labeling Kit for Rabbit IgG is a novel antibody labeling kit that uses an affinity linker to conjugate CoraLite® Plus 647 in any buffer condition to rabbit IgG primary antibodies from any supplier. One labeling reaction requires only 0.5 µg of antibody – regardless of the antibody concentration. Label your rabbit IgG antibody in <10 min without any additional equipment.

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| Product name | FlexAble CoraLite® Plus 647 Antibody Labeling Kit for Rabbit IgG |
| Assay type | Antibody labeling |
| Tested applications | IF, FC, WB |
| Species Reactivity | Rabbit IgG |
| Antibody amount per labeling reaction | 0.5 µg antibody |
| Conjugate | CoraLite® Plus 647 |
| Excitation / Emission maxima wavelengths | 654 nm / 674 nm |

Kit Components

| Component | 10 rxns | 50 rxns | 4×50 rxns |
|--|---------|---------|-----------|
| CoraLite® Plus 647 FlexLinker for Rabbit IgG | 10 µL | 50 µL | 4×50 µL |
| FlexQuencher for Rabbit IgG | 20 µL | 100 µL | 4×100 µL |
| FlexBuffer | 100 µL | 500 µL | 4×500 µL |

Package

10/50/4×50 reactions

Storage Condition

Store for 1 year at -20°C or for 6 months at +4°C upon receipt. Avoid exposure to light.

FAQ

Q: What are the FlexLinker, FlexQuencher and FlexBuffer?

A: The FlexLinker is a small polypeptide to which dyes are covalently conjugated that can label unconjugated primary antibodies. The FlexQuencher is an Fc-containing fragment that neutralizes the excess FlexLinker. The FlexBuffer is a PBS-based buffer.

Q: What is the largest quantity I can label?

A: With a standard kit size (50 reactions), you can label 25 µg of one antibody or up to 50 different antibodies. You can easily scale up the antibody amount per labeling approach.

Q: What is the lowest concentration of my primary antibody that I can use?

A: Our protocol uses 0.5 µg of primary antibody in 7 µL, which ends up at 0.07 mg/mL. If the concentration of your antibody is lower, you can also use a larger volume than 7 µL.

Q: Can I label primary antibodies stored in BSA, glycerol, Tris buffer and/or preservatives?

A: Yes, FlexAble Antibody Labeling Kits have been validated with carriers and amine buffers. Neither BSA nor amine buffers, in any chosen concentration, interfere with the labeling. 50% glycerol as well as preservatives like sodium azide are also compatible with the kit.

Q: How many different primary antibodies can I label with one kit?

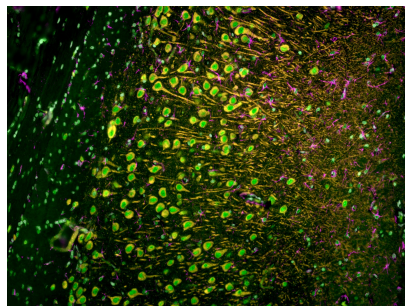
A: You can label up to 50 different antibodies with our FlexAble 50 rxn Kit, and up to 10 antibodies with our FlexAble 10 rxn Kit.

Q: Will I observe cross-reactivity/leaking when I use two FlexAble-labeled antibodies from the same species during multiplexing?

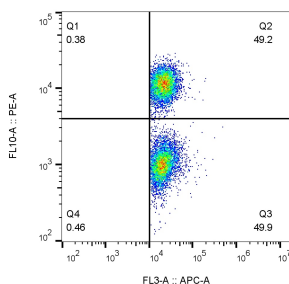
A: FlexAble labels primary antibodies with a high affinity FlexLinker. Dissociation of FlexLinker from one antibody and association to another antibody is rare. If you observe leaking, we recommend adding more FlexQuencher to remove unbound FlexLinker, or you can try sequential staining of the labeled antibodies.

[More FAQs](#)

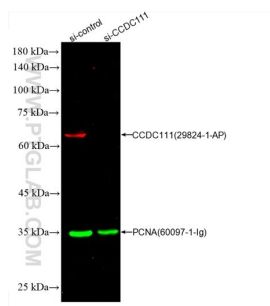
Validation Data



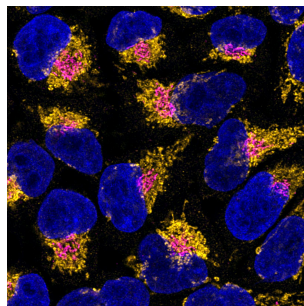
Immunofluorescence of rat brain tissue: FFPE rat brain tissue sections were stained with anti-MAP2 (17490-1-AP) labeled with FlexAble CoraLite® Plus 555 Kit (KFA002, orange), anti-GFAP (16825-1-AP) labeled with FlexAble CoraLite® Plus 647 Kit (KFA003, magenta) and CoraLite® 488-conjugated TDP-43 antibody (CL488-10782, green).



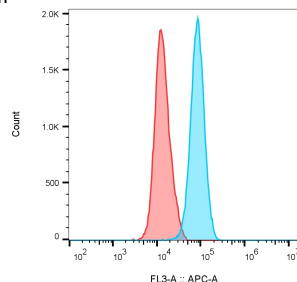
Flow cytometry of PBMCs. 1×10^6 human peripheral blood mononuclear cells (PBMCs) were stained with anti-human CD45 labeled with FlexAble CoraLite® Plus 647 Kit (KFA003) and anti-CD3 (clone UCHT1, 65151-1-Ig) labeled with FlexAble CoraLite® Plus 555 Kit (KFA022).



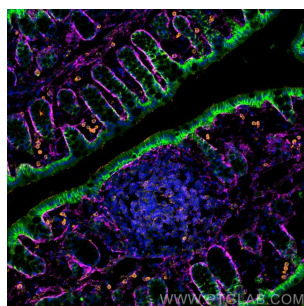
WB of HepG2 cell lysates: siRNA transfected HepG2 cell lysates were detected with anti-CCDC111 (29824-1-AP) labeled with FlexAble CoraLite® Plus 647 Kit (KFA003, red) and anti-PCNA (60097-1-Ig) labeled with FlexAble CoraLite® Plus 555 Kit (KFA022, green).



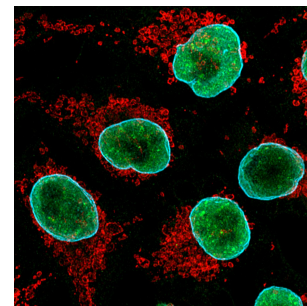
Immunofluorescence of HeLa: PFA-fixed HeLa cells were stained with anti-COXIV (11242-1-AP) labeled with FlexAble CoraLite® Plus 555 Kit (KFA002, yellow), anti-GM130 (11308-1-AP) labeled with FlexAble CoraLite® Plus 647 Kit (KFA003, magenta) and DAPI (blue). Confocal images were acquired with a 100x oil objective and post-processed. Images were recorded at the Core Facility Bioimaging at the Biomedical Center, LMU Munich



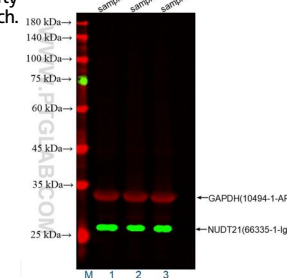
Flow cytometry of Jurkat cells. 1×10^6 Jurkat cells were stained with 0.5 μ g anti-HSP90 antibody (13171-1-AP) labeled with FlexAble CoraLite® Plus 647 Kit (KFA003, cyan) or with isotype control antibody labeled with FlexAble CoraLite® Plus 647 Kit (KFA003, red).



Immunofluorescence of mouse colon: Frozen OCT-embedded mouse colon sections were stained with E-cadherin antibody (20874-1-AP) labeled with CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2, green) in first step, anti-CD45 antibody (80297-1-RR) labeled with CoraLite® Plus 555 (KFA002, orange) in second step, anti-Collagen Type III antibody (22734-1-AP) labeled with FlexAble CoraLite® 647 Kit (KFA003, magenta) in the third step, and DAPI (blue).



Immunofluorescence of HeLa: PFA-fixed HeLa cells were stained with anti-TDP-43 (10782-2-AP) labeled with FlexAble CoraLite® 488 Kit (KFA001, green), anti-Tom20 (11802-1-AP) labeled with FlexAble CoraLite® Plus 555 Kit (KFA002, red) and anti-Lamin B1 (12987-1-AP) labeled with FlexAble CoraLite® Plus 647 Kit (KFA003, cyan). Confocal images were acquired with a 100x oil objective and post-processed. Images were recorded at the Core Facility Bioimaging at the Biomedical Center, LMU Munich.



WB of HeLa cell lysates: HeLa cell lysates were detected with anti-GAPDH (10494-1-AP) labeled with FlexAble CoraLite® Plus 647 Kit (KFA003, red) and anti-NUDT21 (66335-1-Ig) labeled with FlexAble CoraLite® Plus 555 Kit (KFA022, green).

For technical support and original validation data for this product please contact

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