

For Research Use Only

# FlexAble CoraLite® Plus 488 Antibody Labeling Kit for Rabbit IgG

Catalog Number: KFA001



## Product Information

FlexAble CoraLite® Plus 488 Antibody Labeling Kit for Rabbit IgG is a novel antibody labeling kit that uses an affinity linker to conjugate CoraLite® Plus 488 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.

|                                          |                                                                  |
|------------------------------------------|------------------------------------------------------------------|
| Product name                             | FlexAble CoraLite® Plus 488 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 488                                               |
| Excitation / Emission maxima wavelengths | 500 nm / 520 nm                                                  |

## Kit Components

| Component                                    | 10 rxns | 50 rxns | 4×50 rxns |
|----------------------------------------------|---------|---------|-----------|
| CoraLite® Plus 488 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?

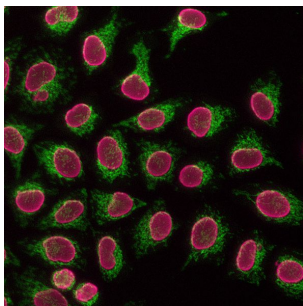
A: You can label up to 50 different antibodies with our FlexAble 50 rxn Kit, and up to 10 antibodies with our FlexAble 10 rxn Kit.

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

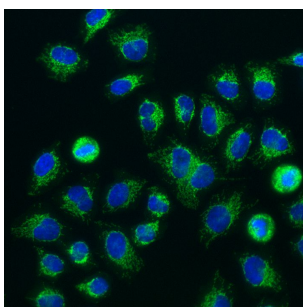
A: FlexAble labels primary antibodies with a high affinity FlexLinker. Dissociation of FlexLinker from one antibody and association to another antibody is rare. If you observe leaking, we recommend adding more FlexQuencher to remove unbound FlexLinker, or you can try sequential staining of the labeled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

[More FAQs](#)

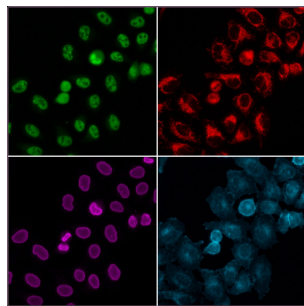
## Validation Data



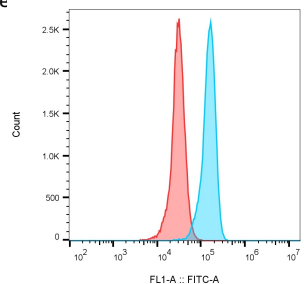
Immunofluorescence of HeLa: PFA-fixed HeLa cells were stained with anti-Tom70 (14528-1-AP) labeled with FlexAble CoraLite® Plus 488 Kit (KFA001, green) and anti-Lamin B1 (12987-1-AP) labeled with FlexAble CoraLite® Plus 647 Kit (KFA003, cyan). Epifluorescence images were acquired with a 20x objective and post-processed.



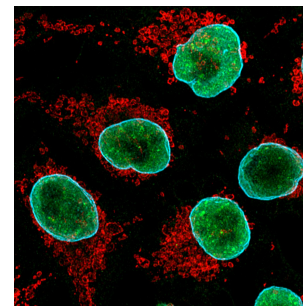
Immunofluorescence of HeLa: PFA-fixed HeLa cells were stained with anti-TOM70 (14528-1-AP) labeled with FlexAble CoraLite® Plus 488 Kit (KFA001, green) and DAPI (blue). Epifluorescence images were acquired with a 20x objective and post-processed.



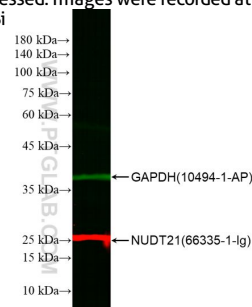
Immunofluorescence of HeLa: PFA-fixed HeLa cells were stained with anti-TDP43 (10782-2-AP) labeled with FlexAble CoraLite® Plus 488 Kit (KFA001, green), anti-TOM20 (11802-1-AP) labeled with FlexAble CoraLite® Plus 555 Kit (KFA002, red), anti-Lamin B1 (12987-1-AP) labeled with FlexAble CoraLite® Plus 647 Kit (KFA003, magenta) and anti-CD147 labeled with FlexAble CoraLite® Plus 750 Kit (KFA004, cyan). Epifluorescence images were acquired.



Flow cytometry of PBMCs.  $1 \times 10^6$  human peripheral blood mononuclear cells (PBMCs) were stained with 0.5  $\mu$ g anti-HSP90 antibody (13171-1-AP) labeled with FlexAble CoraLite® Plus 488 Kit (KFA001, cyan) or with isotype control antibody labeled with FlexAble CoraLite® Plus 488 Kit (KFA001, red).



Immunofluorescence of HeLa: PFA-fixed HeLa cells were stained with anti-TDP-43 (10782-2-AP) labeled with FlexAble CoraLite® Plus 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 Bi



WB of HEK-293 cell lysates: HEK-293 cell lysates were detected with anti-GAPDH (10494-1-AP) labeled with FlexAble CoraLite® Plus 488 Kit (KFA001, green) and anti-NUDT21 (66335-1-Ig) labeled with FlexAble CoraLite® Plus 750 Kit (KFA024, red).

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

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