

For Research Use Only

FlexAble CoraLite® Plus 488 Antibody Labeling Kit for Mouse IgG1

Catalog Number: KFA021



Product Information

FlexAble CoraLite® Plus 488 Antibody Labeling Kit for Mouse IgG1 is a novel antibody labeling kit that uses an affinity linker to conjugate CoraLite® Plus 488 in any buffer condition to mouse IgG1 primary antibodies from any supplier. One labeling reaction requires only 0.5 µg of antibody – regardless of the antibody concentration. Label your mouse IgG1 antibody in <10 min without any additional equipment.

Product name	FlexAble CoraLite® Plus 488 Antibody Labeling Kit for Mouse IgG1
Assay type	Antibody labeling
Tested applications	IF, FC, WB
Species Reactivity	Mouse IgG1
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 Mouse IgG1	10 µL	50 µL	4×50 µL
FlexQuencher for Mouse IgG1	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?

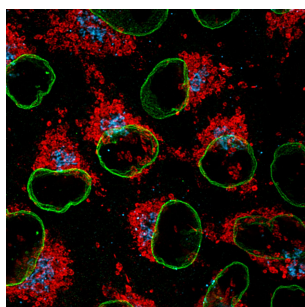
A: You can label up to 50 different antibodies with our FlexAble 50 rxn Kit, and up to 10 antibodies with our FlexAble 10 rxn Kit.

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

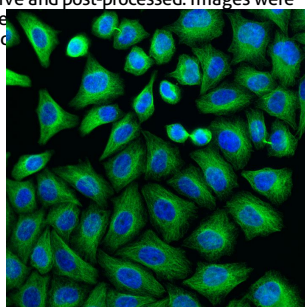
A: FlexAble labels primary antibodies with a high affinity FlexLinker. Dissociation of FlexLinker from one antibody and association to another antibody is rare. If you observe leaking, we recommend adding more FlexQuencher to remove unbound FlexLinker, or you can try sequential staining of the labeled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

[More FAQs](#)

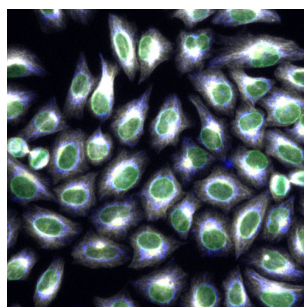
Validation Data



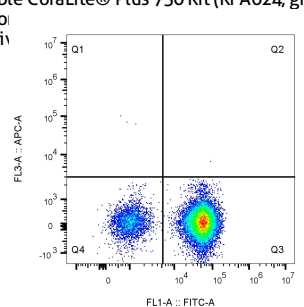
Immunofluorescence of HeLa: PFA-fixed HeLa cells were stained with anti-Lamin B1 (66095-1-Ig) labeled with FlexAble CoraLite® Plus 488 Kit (KFA021, green), anti-HSP60 (66041-1-Ig) labeled with FlexAble CoraLite® Plus 555 Kit (KFA022, red) and anti-GORASP2 (66627-1-Ig) labeled with FlexAble CoraLite® Plus 647 Kit (KFA023, cyan).... Confocal images were acquired with a 100x oil objective and post-processed. Images were recorded with a 20x objective and post-processed.



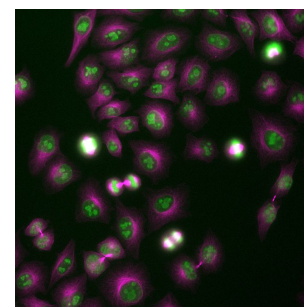
Immunofluorescence of HeLa: PFA-fixed HeLa cells were stained with anti-Tubulin alpha labeled with FlexAble CoraLite® Plus 488 Kit (KFA021, green) and DAPI (blue). Epifluorescence images were acquired with a 20x objective and post-processed.



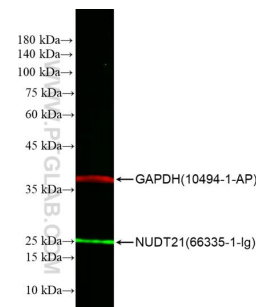
Immunofluorescence of HeLa: PFA-fixed HeLa cells were stained with anti-Lamin B1 (66095-1-Ig) labeled with FlexAble CoraLite® Plus 488 Kit (KFA021, green) and anti-HSP60 (66041-1-Ig) labeled with FlexAble CoraLite® Plus 555 Kit (KFA022, red) and anti-GORASP2 (66627-1-Ig) labeled with FlexAble CoraLite® Plus 647 Kit (KFA023, cyan).... Confocal images were acquired with a 100x oil objective and post-processed. Images were recorded with a 20x objective and post-processed.



Flow cytometry of PBMCs. 1×10^6 human peripheral blood mononuclear cells (PBMCs) were stained with 0.5 μ g anti-human CD3 antibody (clone UCHT1, 65151-1-Ig) labeled with FlexAble CoraLite® Plus 488 Kit (KFA021).



Immunofluorescence of HeLa: PFA-fixed HeLa cells were stained with anti-Ki67 labeled with FlexAble CoraLite® Plus 488 Kit (KFA021, green) and anti-Tubulin alpha labeled with FlexAble CoraLite® Plus 647 Kit (KFA023, magenta). Epifluorescence images were acquired with a 20x objective and post-processed.



WB of HEK-293 cell lysates: HEK-293 cell lysates were detected with anti-GAPDH (10494-1-AP) labeled with FlexAble CoraLite® Plus 750 Kit (KFA004, red) and anti-NUDT21 (66335-1-Ig) labeled with FlexAble CoraLite® Plus 488 Kit (KFA021, green).

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

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