For Research Use Only

FlexAble CoraLite® Plus 488 Antibody Labeling Kit for Rabbit IgG

Catalog Number: KFA001

www.ptgcn.com

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 0.5µg 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

包装规格

10/50/4x 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.

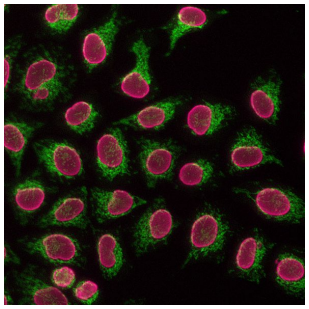
Q: Can I label primary antibodies stored in BSA, glycerol, Tris buffer and/or preservatives?
A: Yes, FlexAble Antibody Labeling Kits have been validated with carriers and amine buffers. Neither BSA nor amine buffers, in any chosen concentration, interfere with the labeling. 50% glycerol as well as preservatives 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.

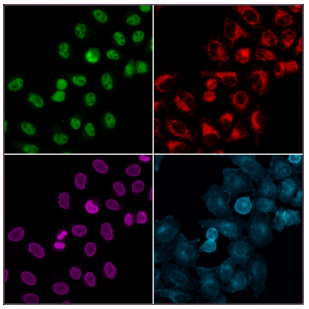
Q: Will I observe cross-reactivity/leaking when I use two FlexAble-labeled antibodies from the same species during multiplexing?
A: FlexAble labels primary antibodies with a high affinity FlexLinker. Dissociation of FlexLinker from one antibody and association to another antibody is rare. If you observe leaking, we recommend adding more FlexQuencher to remove unbound FlexLinker, or you can try sequential staining of the labeled antibodies.

More FAQs

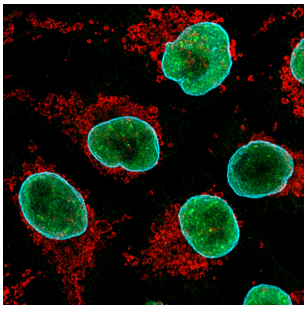
Validation Data



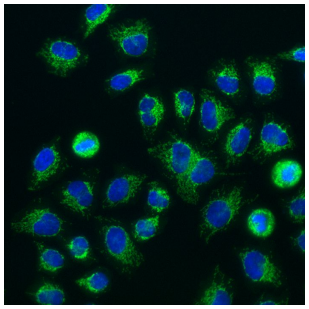
Immunofluorescence of HeLa: PFA-fixed HeLa cells were stained with anti-Tom70 (14528-1-AP) labeled with FlexAble CoraLite® Plus 488 Kit (KFA001, green) and anti-Lamin B1 (12987-1-AP) labeled with FlexAble CoraLite® Plus 647 Kit (KFA003, cyan). Epifluorescence images were acquired with a 20x objective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



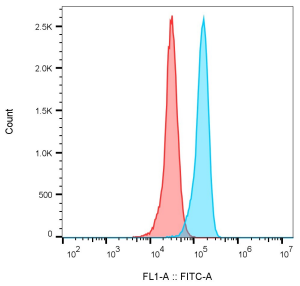
Immunofluorescence of HeLa: PFA-fixed HeLa cells were stained with anti-TDP43 (10782-2-AP) labeled with FlexAble CoraLite® Plus 488 Kit (KFA001, green), anti-TOM20 (11802-1-AP) labeled with FlexAble CoraLite® Plus 555 Kit (KFA002, red), anti-Lamin B1 (12987-1-AP) labeled with FlexAble CoraLite® Plus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



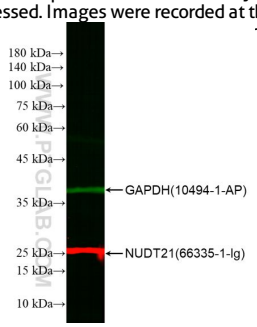
Immunofluorescence of HeLa: PFA-fixed HeLa cells were stained with anti-TDP-43 (10782-2-AP) labeled with FlexAble CoraLite® 488 Kit (KFA001, green), anti-Tom20 (11802-1-AP) labeled with FlexAble CoraLite® Plus 555 Kit (KFA002, red) and anti-Lamin B1 (12987-1-AP) labeled with FlexAble CoraLite® Plus 647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



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.



Flow cytometry of PBMCs. 1X10^6 human peripheral blood mononuclear cells (PBMCs) were stained with 0.5 µg 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).



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).