For Research Use Only

FlexAble CoraLite® Plus 555 Antibody Labeling Kit for Rabbit IgG

Catalog Number: KFA002

www.ptglab.com

Product Information

FlexAble CoraLite® Plus 555 Antibody Labeling Kit for Rabbit IgG is a novel antibody labeling kit that uses an affinity linker to conjugate CoraLite® Plus 555 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 555 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 555
Excitation / Emission maxima wavelengths	554 nm / 570 nm

Kit Components

Component	10 rxns	50 rxns	4×50 rxns
CoraLite® Plus 555 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

10/50/4x 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.

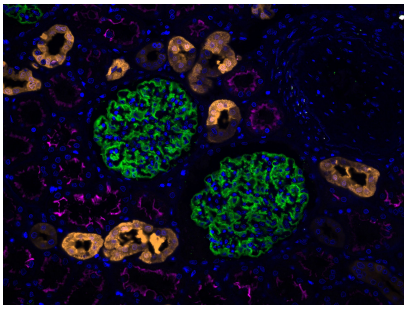
Q: Can I label primary antibodies stored in BSA, glycerol, Tris buffer and/or preservatives?
A: Yes, FlexAble Antibody Labeling Kits have been validated with carriers and amine buffers. Neither BSA nor amine buffers, in any chosen concentration, interfere with the labeling. 50% glycerol as well as preservatives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

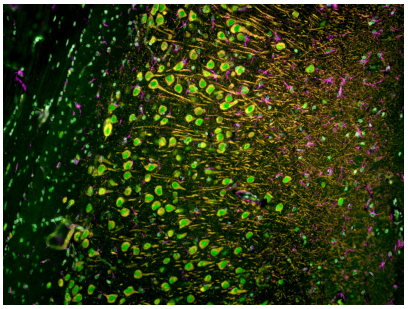
Q: Will I observe cross-reactivity/leaking when I use two FlexAble-labeled antibodies from the same species during multiplexing?
A: FlexAble labels primary antibodies with a high affinity FlexLinker. Dissociation of FlexLinker from one antibody and association to another antibody is rare. If you observe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

More FAQs

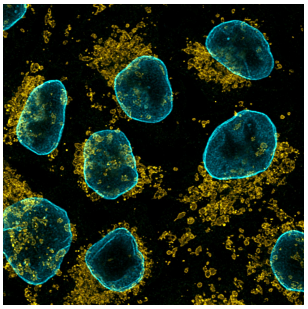
Validation Data



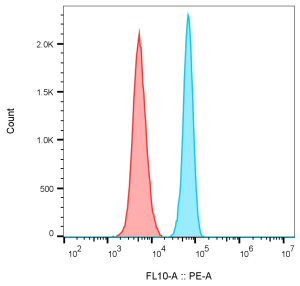
Immunofluorescence of human kidney: FFPE human kidney sections were stained with anti-Calbindin (14479-1-AP) labeled with FlexAble CoraLite® Plus 555 Kit (KFA002, yellow), anti-ACE2 (66699-1-Ig) labeled with FlexAble CoraLite® Plus 647 Kit (KFA023, magenta), CoraLite®488-conjugated Podocalyxin antibody (CL488-18150,... green) and DAPI (blue).



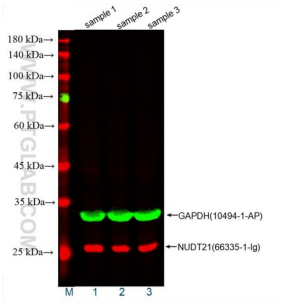
Immunofluorescence of rat brain tissue: FFPE rat brain tissue sections were stained with anti-MAP2 (17490-1-AP) labeled with FlexAble CoraLite® Plus 555 Kit (KFA002, orange), anti-GFAP (16825-1-AP) labeled with FlexAble CoraLite® Plus 647 Kit (KFA003, magenta) and CoraLite®488-conjugated TDP-43 antibody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



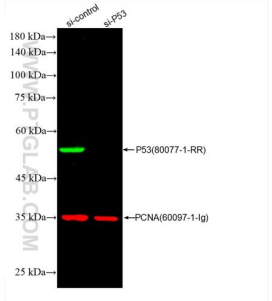
Immunofluorescence of HeLa: PFA-fixed HeLa cells were stained with anti-TOM20 (11802-1-AP) labeled with FlexAble CoraLite® Plus 555 Kit (KFA002, yellow) and anti-Lamin B1 (12987-1-AP) labeled with FlexAble CoraLite® Plus 647 Kit (KFA003, cyan). Confocal images were acquired with a 100x oil objective and post-processed.... Images were recorded at the Core Facility Bioimaging at the Biomedical Center, LMU Munich.



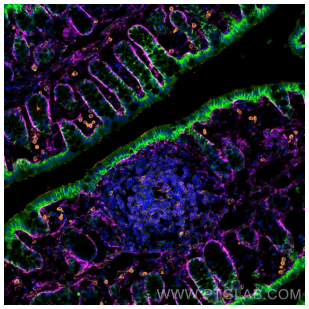
Flow cytometry of Jurkat cells. 1X10^6 Jurkat cells were stained with 0.5 µg anti-HSP90 antibody (13171-1-AP) labeled with FlexAble CoraLite® Plus 555 Kit (KFA002, cyan) or with isotype control antibody labeled with FlexAble CoraLite® Plus 555 Kit (KFA002, red).



WB of HeLa cell lysates: HeLa cell lysates were detected with anti-GAPDH (10494-1-AP) labeled with FlexAble CoraLite® Plus 555 Kit (KFA002, green) and anti-NUDT21 (66335-1-Ig) labeled with FlexAble CoraLite® Plus 647 Kit (KFA023, red).



WB of A431 cell lysate: siRNA transfected A431 cell lysates were detected with anti-P53 (80077-1-RR) labeled with FlexAble CoraLite® Plus 555 Kit (KFA002, green) and anti-PCNA (60097-1-Ig) labeled with FlexAble CoraLite® Plus 647 Kit (KFA023, red).



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