

FlexAble CoraLite® Plus 647 Antibody Labeling Kit for Rat Kappa Light Chain

Catalog Number: KFA123

Description

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

Product Information

Component	10 rxns	50 rxns	4×50 rxns
CoraLite® Plus 647 FlexLinker for Rat Kappa Light Chain	10 µL	50 µL	4×50 µL
FlexQuencher for Rat Kappa Light Chain	20 µL	100 µL	4×100 µL
FlexBuffer	100 µL	500 µL	4×500 µL

Package

10/50/4×50 reactions

Storage

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

Others

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?

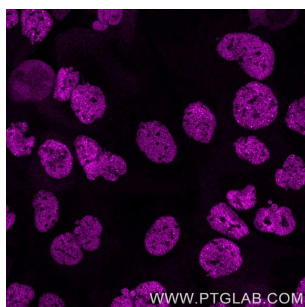
A: You can label up to 50 different antibodies with our FlexAble 50 rxn Kit, and up to 10 antibodies with our FlexAble 10 rxn Kit.

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

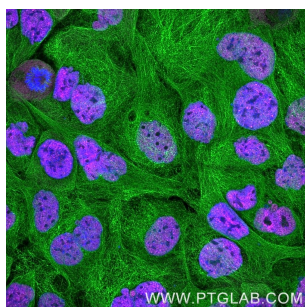
A: FlexAble labels primary antibodies with a high affinity FlexLinker. Dissociation of FlexLinker from one antibody and association to another antibody is rare. If you observe leaking, we recommend adding more FlexQuencher to remove unbound FlexLinker, or you can try sequential staining of the labeled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

[More FAQs](#)

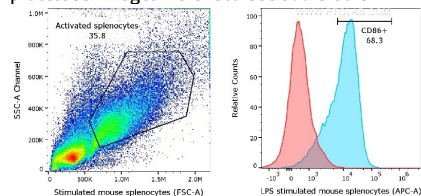
Validation Data



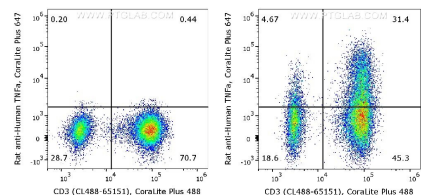
Immunofluorescence of A431 cells: PFA-fixed cells were stained with rat anti-RNA Pol II Ser5 antibody labeled with FlexAble CoraLite® Plus 647 Kit (KFA123, magenta). Confocal images were acquired with a 63x oil objective and post-processed. Images were recorded at the Core Facility Bioimaging at the Biomedical Center, LMU Munich.



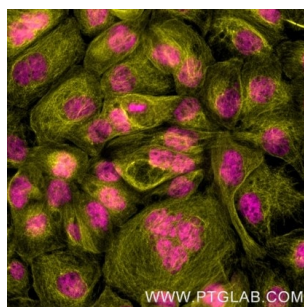
Immunofluorescence of A431 cells: PFA-fixed cells were co-stained with rat anti-RNA Pol II Ser5 antibody labeled with FlexAble CoraLite® Plus 647 Kit (KFA123, magenta) and with rat anti-Tubulin alpha antibody labeled with FlexAble CoraLite® Plus 488 Kit (KFA121, green). Cell nuclei were stained with DAPI (blue). Confocal images were... acquired with a 63x oil objective and post-processed. Images were recorded at the Core



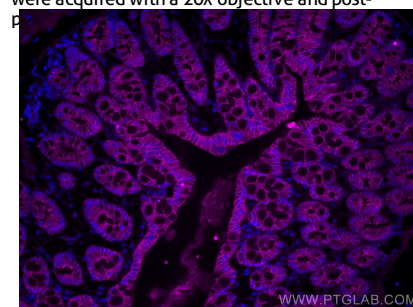
1×10^6 of LPS treated mouse splenocytes were surface stained with rat anti-Mouse CD86 (65068-1-Ig, Clone: GL1) or rat IgG2a isotype control (65209-1-Ig) labeled with FlexAble CoraLite® Plus 647 Kit (KFA123). Cells were not fixed. Histogram, red: Rat IgG2a isotype control (65209-1-Ig); blue: Rat anti-mouse CD86 (65068-1-Ig).



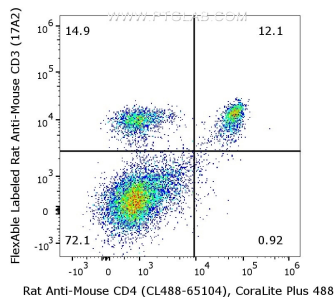
Human peripheral blood lymphocytes (PBMC) were either un-stimulated (left) or stimulated with PMA and Ionomycin for 6 hours in the presence of monensin (right). Cells were fixed and permeabilized with Foxp3/Transcription Factor Staining Buffer Kit (PF00011). After wash,



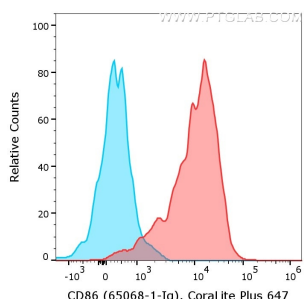
Immunofluorescence of A431: Formaldehyde-fixed A431 cells were stained with rat IgG2b kappa anti-RNA Polymerase II antibody labeled with FlexAble CoraLite® Plus 555 Kit (KFA122, yellow) and rat IgG2a kappa anti-Tubulin antibody labeled with FlexAble CoraLite® Plus 647... Kit (KFA123, magenta). Epifluorescence images were acquired with a 20x objective and post-



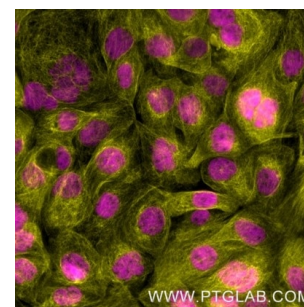
Immunofluorescent analysis of FFPE mouse colon tissue slides with Rat anti-mouse Cdh1 antibody labeled with FlexAble CoraLite Plus 647 Kit (KFA123, magenta). With/without quencher. Cell nuclei were stained with DAPI (blue).



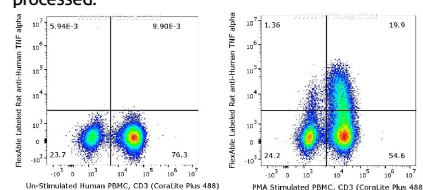
1×10^6 C57BL/6 mouse splenocytes were surface stained with CoraLite Plus 488 Anti-Mouse CD4 (CL488-65104, Clone: GK1.5) and 0.5 μg rat anti-Mouse CD3 (65077-1-Ig, Clone: 17A2) labeled with FlexAble CoraLite® Plus 647 Kit (KFA123). Cells were not fixed.



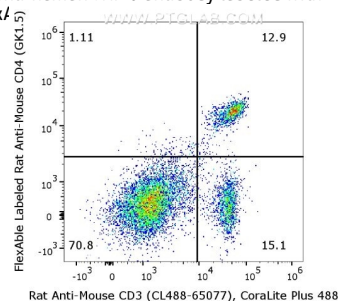
1×10^6 of LPS treated mouse splenocytes were surface stained with rat anti-Mouse CD86 (65068-1-Ig, Clone: GL1, red) or rat IgG2a isotype control (65209-1-Ig, blue) labeled with FlexAble CoraLite® Plus 647 for Rat Kappa Light Chain (KFA123). Cells were not fixed.



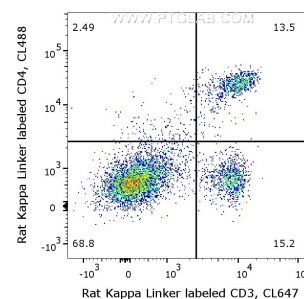
Immunofluorescence of A431: Formaldehyde-fixed A431 cells were stained with rat IgG2a kappa anti-Tubulin antibody labeled with FlexAble CoraLite® Plus 555 Kit (KFA122, yellow) and rat IgG1 kappa anti-RPA32 antibody labeled with FlexAble CoraLite® Plus 647 Kit (KFA123, magenta). Epifluorescence images... were acquired with a 20x objective and post-processed.



Human peripheral blood lymphocytes (PBMC) were either un-stimulated (left) or stimulated with PMA and Ionomycin for 6 hours in the presence of monensin (right). The cells were surface stained with CD3 antibody (CL488-65151) before fixation. Then, cells were fixed and permeabilized with Foxp3/Transcription Factor Staining Buffer... Kit (PF00011). After wash, cells were stained with rat anti-human TNF-α antibody labeled with FlexAble CoraLite® Plus 647 Kit (KFA123).



1×10^6 C57BL/6 mouse splenocytes were surface stained with CoraLite® Plus 488 Anti-Mouse CD3 (CL488-65077, Clone: 17A2) and 0.5 μg rat anti-Mouse CD4 (65104-1-Ig, Clone: GK1.5) labeled with FlexAble CoraLite® Plus 647 (KFA123). Cells were not fixed.



1×10^6 C57BL/6 mouse splenocytes were surface stained with 0.5 μg rat anti-Mouse CD4 (65104-1-Ig, Clone: GK1.5) labeled with FlexAble CoraLite® Plus 488 Kit (KFA121) and 0.5 μg rat anti-Mouse CD3 (65077-1-Ig, Clone: 17A2) labeled with FlexAble CoraLite® Plus 647 Kit (KFA123). Cells were not fixed.

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

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