

FlexAble Biotin Antibody Labeling Kit for Human IgG

Catalog Number: KFA111

Description

Product name	FlexAble Biotin Antibody Labeling Kit for Human IgG
Assay type	Antibody labeling
Tested applications	IF, FC, IHC
Species Reactivity	Human IgG
Antibody amount per labeling reaction	0.5 µg antibody
Conjugate	Biotin
Compatible with	Streptavidin conjugated dyes and molecules

Product Information

Component	10 rxns	50 rxns	4×50 rxns
Biotin FlexLinker for Human IgG	10 µL	50 µL	4×50 µL
FlexQuencher for Human IgG	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?

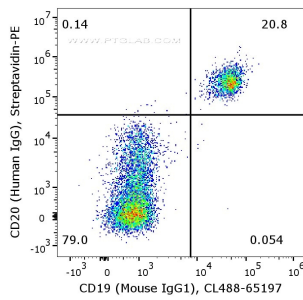
A: You can label up to 50 different antibodies with our FlexAble 50 rxn Kit, and up to 10 antibodies with our FlexAble 10 rxn Kit.

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

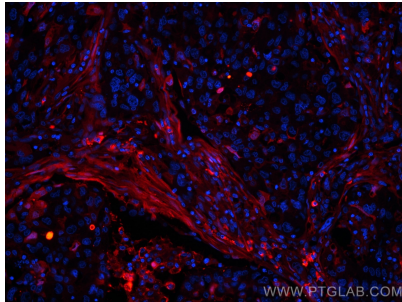
A: FlexAble labels primary antibodies with a high affinity FlexLinker. Dissociation of FlexLinker from one antibody and association to another antibody is rare. If you observe leaking, we recommend adding more FlexQuencher to remove unbound FlexLinker, or you can try sequential staining of the labeled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

[More FAQs](#)

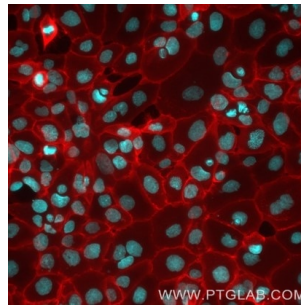
Validation Data



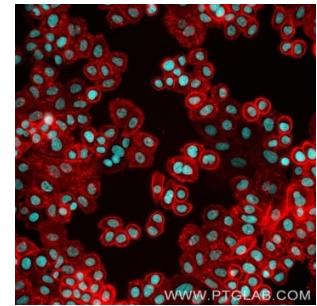
Flow cytometry of PBMC. 1×10^6 human peripheral blood mononuclear cells (PBMCs) were stained with anti-human CD20 (Human IgG1) labeled with FlexAble Biotin Kit (KFA111) and streptavidin-PE dye. The cells are co-stained with anti-human CD19 (Mouse IgG1, clone 4G7) conjugated with CoraLite® Plus 488 (CL488-65197). Note: Cells... treated with Endogenous Biotin-Blocking Kit from ThermoFisher.



Immunofluorescent analysis of (4% PFA) fixed human lung cancer using FlexAble Biotin Antibody Labeling Kits for Human IgG and Streptavidin-594(red) to label endogenous human IgG in the tissue.



Live A431 cells were immunostained with anti-EGFR (cetuximab biosimilar) labeled with FlexAble Biotin Antibody Labeling Kit for Human IgG (KFA111) and Streptavidin-ATTO594 (red). Nuclei are in cyan. Epifluorescence images were acquired with a 20x objective and post-processed.



Live SKBR-3 cells immunostained with anti-HER2 (trastuzumab biosimilar) labeled with FlexAble Biotin Antibody Labeling Kit for Human IgG (KFA111) and Streptavidin-ATTO594 (red). Nuclei are in blue. Epifluorescence images were acquired with a 20x objective and post-processed.

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

T: 1 (888) 4PTGLAB(1-888-478-4522)(toll free in USA), or
1(312) 455-8498(outside USA)

E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.