

# FlexAble Biotin Antibody Labeling Kit for Mouse IgG2a

Catalog Number: KFA047

## Description

Product name	FlexAble Biotin Antibody Labeling Kit for Mouse IgG2a
Assay type	Antibody labeling
Tested applications	IF, FC, IHC
Species Reactivity	Mouse IgG2a
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 Mouse IgG2a	10 µL	50 µL	4×50 µL
FlexQuencher for Mouse IgG2a	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 upon receipt. 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?

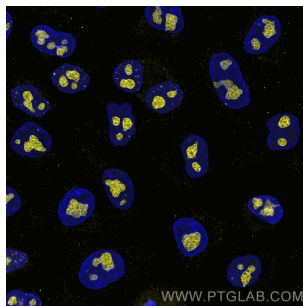
A: You can label up to 50 different antibodies with our FlexAble 50 rxn Kit, and up to 10 antibodies with our FlexAble 10 rxn Kit.

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

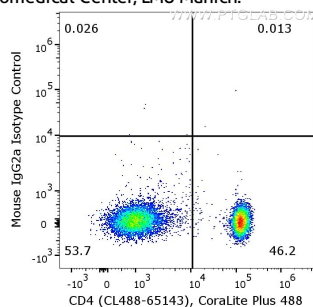
A: FlexAble labels primary antibodies with a high affinity FlexLinker. Dissociation of FlexLinker from one antibody and association to another antibody is rare. If you observe leaking, we recommend adding more FlexQuencher to remove unbound FlexLinker, or you can try sequential staining of the labeled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

[More FAQs](#)

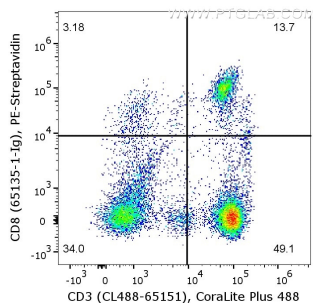
## Validation Data



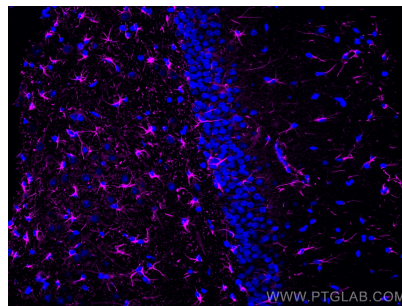
Immunofluorescence of HeLa: PFA-fixed HeLa cells were stained with anti-GNL3 antibody (67169-1-Ig) labeled with FlexAble Biotin Antibody Labeling Kit for Mouse IgG2a (KFA047) and Streptavidin-ATTO594 (yellow). Nuclei are stained with DAPI (blue). Confocal images were acquired with a 100x oil objective and post-processed. Images... were recorded at the Core Facility Bioimaging at the Biomedical Center, LMU Munich.



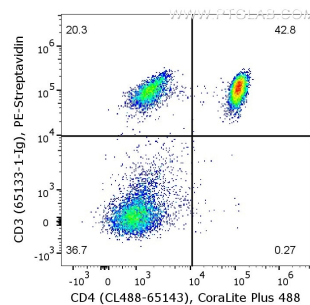
Flow cytometry with PBMC.  $1 \times 10^6$  human PBMC were stained with either mouse IgG2a isotype control or anti-human CD3 antibody (65133-1-Ig), which are labeled with FlexAble Biotin Antibody Labeling Kit for Mouse IgG2a (KFA047) and PE-Streptavidin. Cells were co-stained with anti-human CD4 antibody (CL488-65143). Cells are not... fixed, lymphocytes are gated.



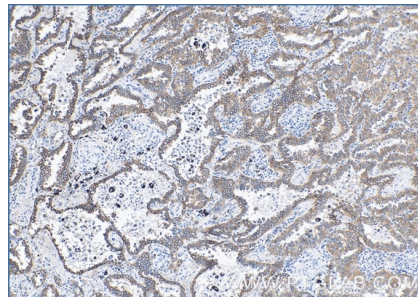
Flow cytometry of PBMC.  $1 \times 10^6$  human PBMC were stained with either mouse IgG2a isotype control or anti-human CD8 antibody (65135-1-Ig), which are labeled with FlexAble Biotin Antibody Labeling Kit for Mouse IgG2a (KFA047) and Streptavidin-PE. Cells were co-stained with anti-human CD3 antibody (CL488-65151). Cells are not... fixed, lymphocytes are gated.



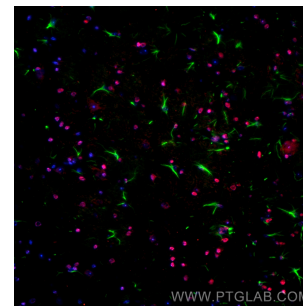
Immunofluorescence of rat brain: FFPE rat brain sections were stained with anti-GFAP antibody (60190-1-Ig) labeled with FlexAble Biotin Antibody Labeling Kit for Mouse IgG2a (KFA047) and Streptavidin-650 (magenta). Cell nuclei are in blue.



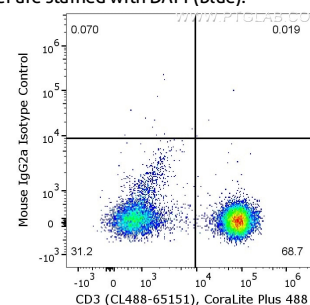
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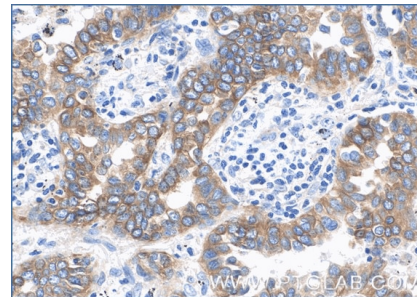
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using anti-CK7 antibody (66483-1-Ig) labeled with FlexAble Biotin Antibody Labeling Kit for Mouse IgG2a (KFA047) and used at a dilution of 1:800 (under 10x lens). Streptavidin Poly-HRP and DAB substrate was used for detection. Heat mediated... antigen retrieval performed with Tris-EDTA buffer (pH 9.0).



Immunofluorescence of mouse cerebellum: FFPE mouse cerebellum sections were stained with anti-GFAP antibody (60190-1-Ig) labeled with FlexAble Biotin Antibody Labeling Kit for Mouse IgG2a (KFA047) and Streptavidin-488 (green), and anti-SOX10 antibody (66786-1-Ig) labeled with FlexAble Biotin Antibody Labeling Kit for Mouse... IgG2a (KFA047) and Streptavidin-594 (red). Cell nuclei are stained with DAPI (blue).



Flow cytometry of PBMC.  $1 \times 10^6$  human PBMC were stained with either mouse IgG2a isotype control or anti-human CD8 antibody (65135-1-Ig), which are labeled with FlexAble Biotin Antibody Labeling Kit for Mouse IgG2a (KFA047) and Streptavidin-PE. Cells were co-stained with anti-human CD3 antibody (CL488-65151). Cells are not... fixed, lymphocytes are gated.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using anti-CK7 antibody (66483-1-Ig) labeled with FlexAble Biotin Antibody Labeling Kit for Mouse IgG2a (KFA047) and used at a dilution of 1:800 (under 40x lens). Streptavidin Poly-HRP and DAB substrate was used for detection. Heat mediated... antigen retrieval performed with Tris-EDTA buffer (pH 9.0).

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](mailto:proteintech@ptglab.com)  
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