proteintech®

FlexAble 2.0
Antibody Labeling Kits

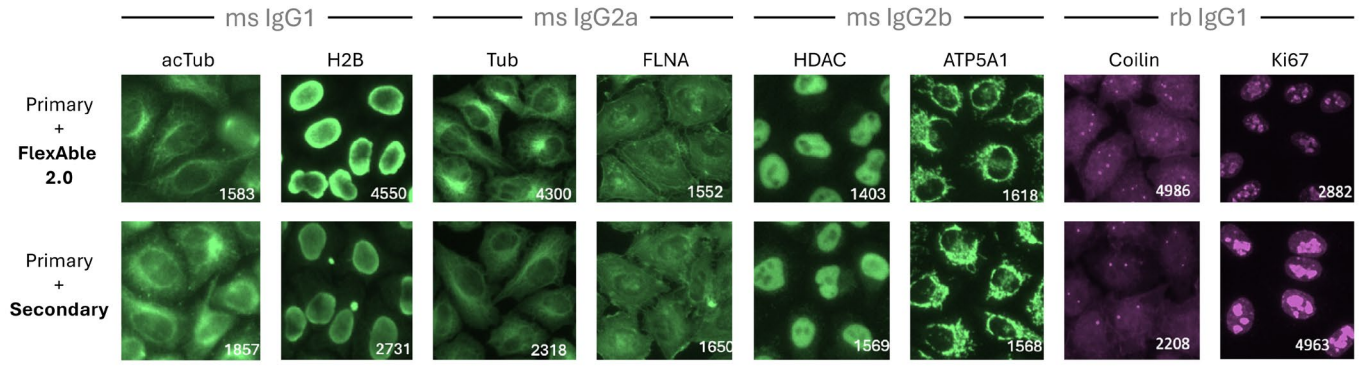
Browse FlexAble Kits

FlexAble 2.0 Antibody Labeling Kits enable rapid and easy antibody labeling with dyes for use in immunoassays.

FlexAble 2.0 Antibody Labeling Kits

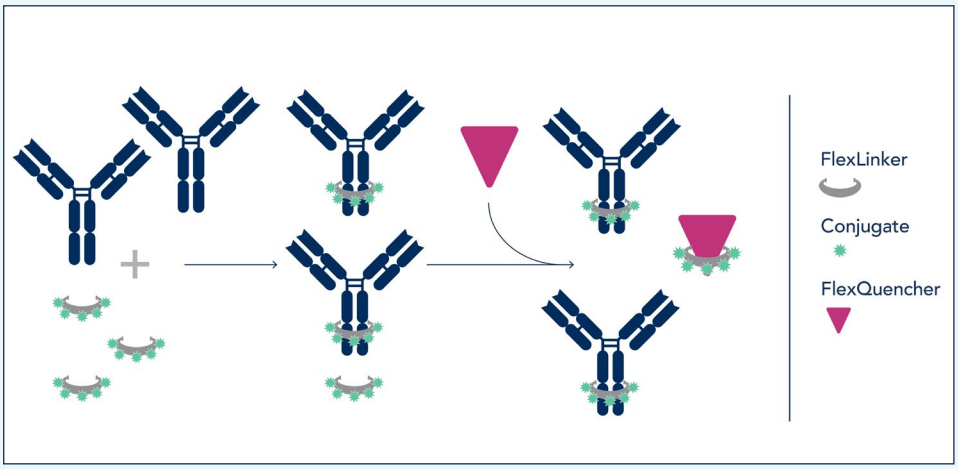
- Are compatible with antibodies from any supplier
- Work with any antibody concentration and formulation
- Label antibodies in the presence of BSA and glycerol
- Does not require antibody purification before or after labeling
- Label antibodies in a site-specific manner with a consistent degree of labeling
- Label as little as 0.5 µg of antibody and scale up as needed

See the difference with FlexAble 2.0



(Above) Eight different mouse and rabbit antibodies from a variety of IgG subclasses were labeled with FlexAble 2.0 Antibody Labeling Kits or with a primary + secondary antibody combination. Green: CoraLite® Plus 488, Magenta: CoraLite® Plus 647 versions of FlexAble or secondary antibody. Mean fluorescence intensity is shown in white text to compare the relative signal of each method.

How FlexAble 2.0 Works



(Left) Antibody labeling with FlexAble relies on the high-affinity, non-covalent binding of Fc-specific FlexLinkers to the antibody. Unbound FlexLinker is neutralized by adding a FlexQuencher. Excess FlexQuencher and FlexLinker are removed during assay washing steps to prevent background signal. The labeling reaction yields near 100% labeled antibody that can be used in applications such as immunofluorescence, IHC, flow cytometry, and Western blotting.

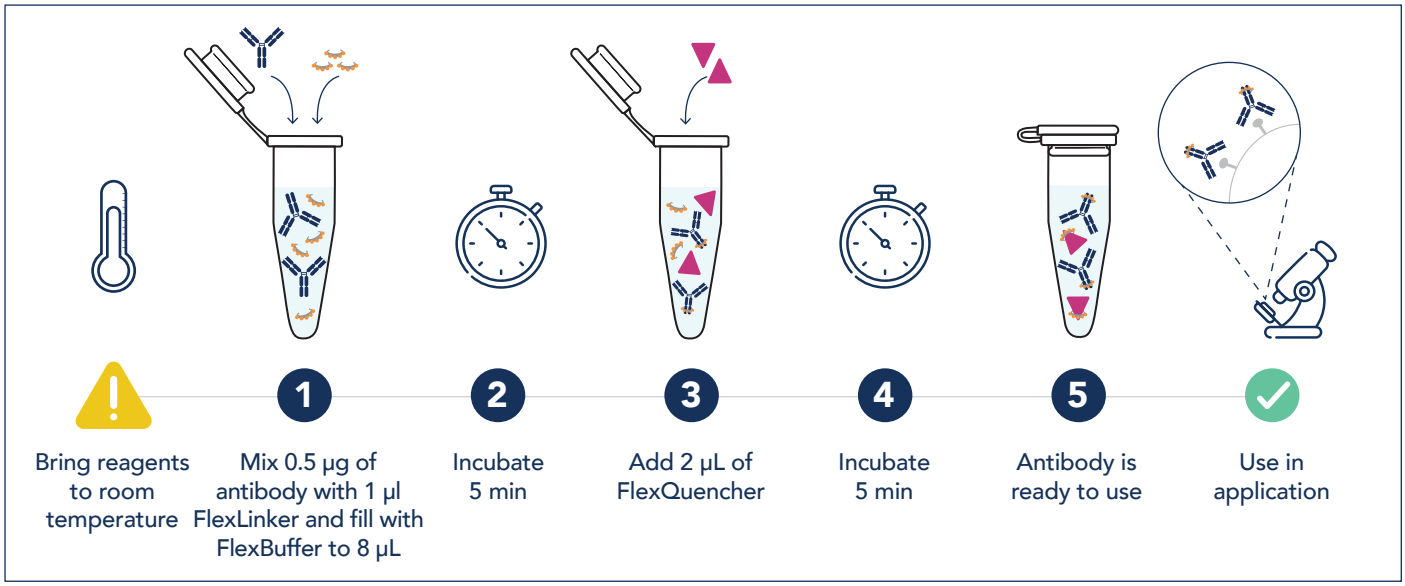
FlexAble 2.0 Species and Conjugate Coverage

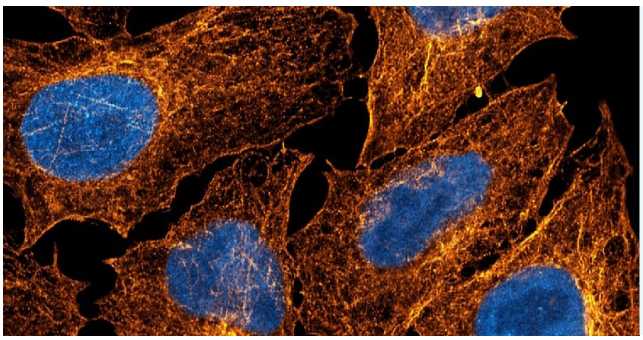
Rabbit IgG	Human IgG	Mouse IgG1	Mouse IgG2a	Mouse IgG2b	Rat kappa LC
CoraLite® Plus 405	CoraLite® Plus 405	CoraLite® Plus 405	CoraLite® Plus 405	CoraLite® Plus 405	
CoraLite® Plus 488	CoraLite® Plus 488	CoraLite® Plus 488	CoraLite® Plus 488	CoraLite® Plus 488	CoraLite® Plus 488
FITC Plus	FITC Plus	FITC Plus	FITC Plus	FITC Plus	FITC Plus
CoraLite® Plus 555	CoraLite® Plus 555	CoraLite® Plus 555	CoraLite® Plus 555	CoraLite® Plus 555	CoraLite® Plus 555
CoraLite® Plus 594	CoraLite® Plus 594	CoraLite® Plus 594	CoraLite® Plus 594	CoraLite® Plus 594	
CoraLite® Plus 647	CoraLite® Plus 647	CoraLite® Plus 647	CoraLite® Plus 647	CoraLite® Plus 647	CoraLite® Plus 647
CoraLite® Plus 750	CoraLite® Plus 750	CoraLite® Plus 750	CoraLite® Plus 750	CoraLite® Plus 750	
Biotin	Biotin	Biotin	Biotin	Biotin	Biotin
HRP	HRP	HRP	HRP	HRP	HRP

Buffer compatibility

PBS	Tris	Glycerol (≤ 50%)	BSA (≤ 1%)	FCS (≤ 5%)	EDTA (≤ 5mM)	FACS Buffer
✓	✓	✓	✓	✓	✓	✓

Easily integrate FlexAble into your workflow
Minimal preparation | Minimal hands-on time | No purification

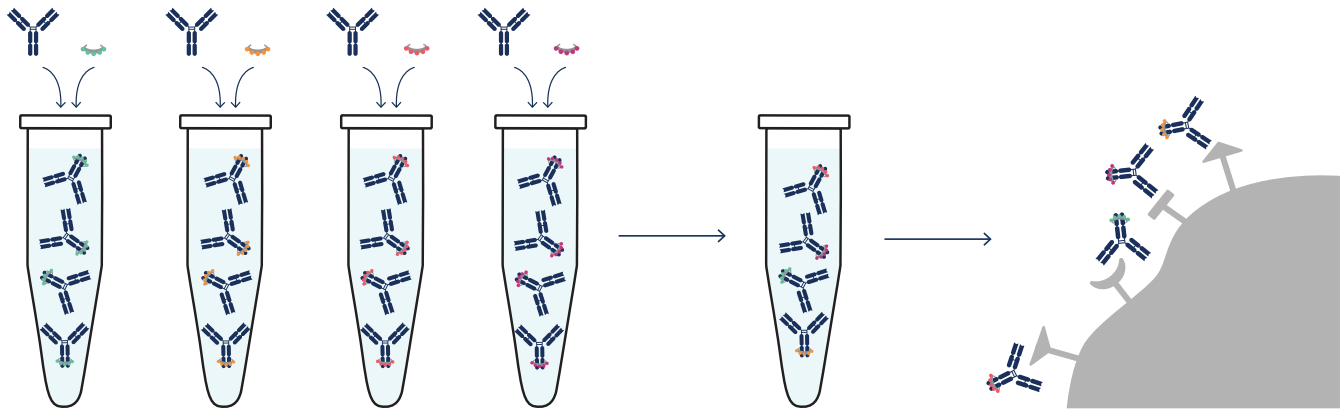




Singleplex Immunofluorescence

FA-fixed and permeabilized HeLa cells were stained with rat anti-Tubulin antibody labeled with a FlexAble 2.0 CoraLite® Plus 555 Kit (KFA622, orange). Nuclei are blue. Confocal images were acquired with a 63x oil objective and post-processed.

Multiplexing – made easy. Same-species multiplexing? No problem!



Using FlexAble kits, label four antibodies from the same species individually

Mix labeled antibodies together

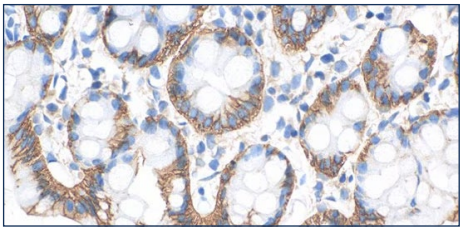
Labeled antibodies are now ready to use

Our highly subtype specific FlexLinkers enable you to do same species multiplexing

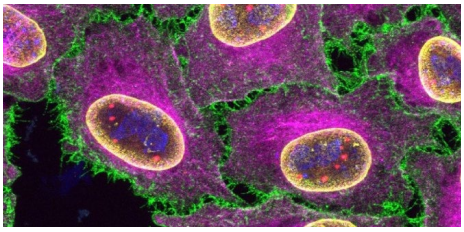
(Above) Same-species multiplexing requires labeling antibodies from the same species in separate tubes. After adding Flex-Quencher, excess FlexLinker will be bound, and all antibodies can be mixed without cross-labeling. Antibodies from different species can be labeled together in one tube.

Immunohistochemistry (IHC) and Immunofluorescence (IF) Imaging

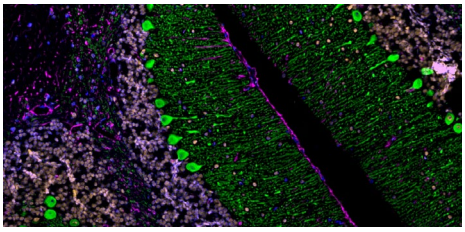
FlexAble Kits can be used for standard IF and chromogenic IHC as well as advanced imaging workflows such as cycIF, IBEX, TSA assays or expansion microscopy.



(Above) Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide with anti-E-cadherin Antibody (20874-1-AP) labeled with FlexAble HRP Antibody Labeling Kit for Rabbit IgG (KFA005). Antibody used at a dilution of 1:1000 under 10x and 40x lens. Heat mediated antigen retrieval performed with Tris-EDTA buffer (pH 9.0) and DAB substrate was used for detection.



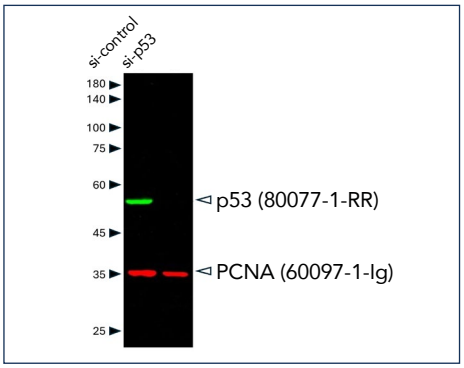
(Above) IF Image of PFA-fixed HeLa cells with five rabbit primary antibodies: anti-Ki-67 (MA5-14520, KFA506, blue), anti-CD147 (11989-1-AP, KFA501, green), anti-Lamin B1 (12987-1-AP, KFA502, yellow), anti-Coilin (10967-1-AP, KFA503, red), and anti-Tubulin (80713-1-RR, magenta), all labeled with FlexAble 2.0. Confocal images were acquired with a 60x oil objective.



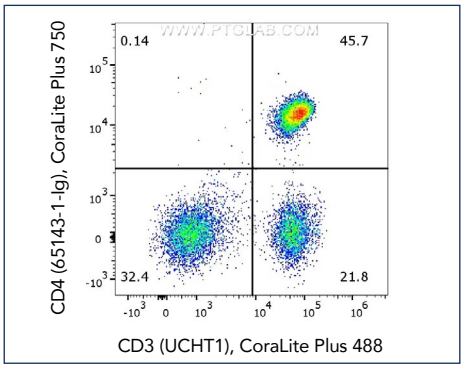
(Above) IF Image of FFPE mouse cerebellum sections that were stained with anti-Calbindin antibody (14479-1-AP, green) labeled with FlexAble HRP Kit (KFA005) and Tyramide-488, anti-Fus antibody (68262-1-Ig, orange) labeled with FlexAble HRP Kit (KFA025) and Tyramide-555, and anti-GFAP antibody (60190-1-Ig, magenta) labeled with FlexAble HRP Kit (KFA045) and Tyramide-650. Cell nuclei are in blue.

Western Blot, Flow Cytometry and Screening Applications

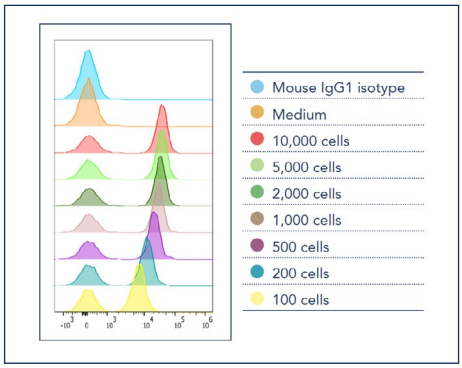
FlexAble enables one-step Western blot detection by directly labeling the primary antibody. It can also be used to complete your flow cytometry panels. Because it allows efficient labeling of very small amounts of antibody, even directly in cell culture media such as hybridoma supernatants, it is also useful for screening and identifying positive clones.



(Above) 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 (KFA502, green) and anti-PCNA (60097-1-Ig) labeled with FlexAble CoraLite® Plus 647 Kit (KFA523, red).



(Above) 1x10^6 human PBMCs were surface co-stained with CoraLite® Plus 488 Anti-Human CD3 (CL488-65151, Clone: UCHT1), and Anti-Human CD4 (65143-1-Ig, Clone:RPA-T4) labeled with FlexAble 2.0 CoraLite® Plus 750 Kit (KFA524). Cells were not fixed. Lymphocytes were gated.



(Above) Readouts of labeled antibody harvested from the supernatant of CD3 (UCHT1) hybridomas. Cells were seeded in varying amounts into 96-well plates and FlexAble CoraLite Plus® 647 Kit for mouse IgG1 was used to label antibodies directly in the supernatant. The supernatants with labeled antibody were used to stain 1x10^6 human PBMCs. Positively stained cells were detected by flow cytometry.

Learn More

FlexAble Oligo-Ready

The newly launched FlexAble Oligo-Ready Antibody Labeling Kits expand the FlexAble product line into the field of oligo-conjugated antibodies. **Scan the QR code to learn more.**