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Product Information

Labeled Goat Anti-Mouse IgG (H+L) Antibodies

Cat. Number	Label	Unit Size
L100A	Andy Fluor 350	
L100A	Andy Fluor 350	100 μg
L100B		500 μg
	Andy Fluor 405M	100 μg
L103B	Andy Fluor 405M	500 μg
L106A	Andy Fluor 430	100 μg
L106B	Andy Fluor 430	500 μg
L109A	Andy Fluor 488	100 μg
L109B	Andy Fluor 488	500 μg
L113A	Andy Fluor 555	100 μg
L113B	Andy Fluor 555	500 μg
L116A	Andy Fluor 568	100 μg
L116B	Andy Fluor 568	500 μg
L119A	Andy Fluor 594	100 μg
L119B	Andy Fluor 594	500 μg
L125A	Andy Fluor 647	100 μg
L125B	Andy Fluor 647	500 μg
L128A	Andy Fluor 680	100 μg
L128B	Andy Fluor 680	500 μg
L131A	Andy Fluor 750	100 μg
L131B	Andy Fluor 750	500 μg
L134A	Cy3	100 μg
L134B	Cy3	500 μg
L137A	Cy5	100 μg
L137B	Cy5	500 μg
L140A	Cy5.5	100 μg
L140B	Cy5.5	500 μg
L143A	Ćy7	100 μg
L143B	Cy7	500 μg
L146A	FITC	100 μg
L146B	FITC	500 μg
L149A	Biotin	100 μg
L149B	Biotin	500 μg

Spectral Properties:

Label	Ex nm	Em nm
Andy Fluor 350	345	440
Andy Fluor 405M	405	450
Andy Fluor 430	430	540
Andy Fluor 488	495	520
Andy Fluor 555	553	565
Andy Fluor 568	578	605
Andy Fluor 594	590	615
Andy Fluor 647	650	665
Andy Fluor 680	680	700
Andy Fluor 750	750	770
Cy3	550	565
Cy5	650	667
Cy5.5	680	700
Су7	750	770
FITC	490	520

Storage upon receipt:

- 2-8 °C
- **Protect from light**
- Avoid freeze-thaw cycles

Product Description

Applied BioProbes offers an extensive line of goat anti-mouse IgG conjugates labeled with a wide selection of fluorescent dyes, biotin, or HRP.

Fluorescent Goat Anti-Mouse IgG conjugates are ideal for fluorescence microscopy and confocal laser scanning microscopy, flow cytometry, and fluorescent western detection. The breadths of fluorescent markers we offer allow our reagents to be tailored to almost any fluorescent detection system.

The Goat Anti-Mouse IgG antibody conjugates are prepared from affinity purified antibodies that react with IgG heavy chains and all classes of immunoglobulin light chains from mouse. To minimize cross-reactivity, the goat anti-mouse IgG antibodies have been adsorbed against human IgG and human serum prior to conjugation. The degree of labeling for each conjugate is typically 2-8 fluorophore or biotin molecules per IgG molecule. At the time of preparation, the products are certified to be free of unconjugated dyes and are tested in an immunofluorescence experiment to ensure low nonspecific staining.

Product Specification

Physical State: Lyophilized power

Buffer: PBS, pH 7.4 Stabilizer: 0.1% BSA

Preservative: 0.02% Sodium Azide

Reconstitution and Storage: Store lyophilized power at 2-8°C. When ready to use, rehydrate with dH₂O (50 µL for 100 μg antibody or 250 μL for 500 μg antibody) to make 2 mg/mL solution and centrifuge if not clear. Product is stable for about 6 months at 2-8°C as an undiluted liquid. Prepare working dilution fresh each day. For extended storage after rehydration, add an equal volume of glycerol for a final concentration of 50%, and store at -20 °C as a liquid.

Guidelines for Use

Centrifuge the reconstituted protein conjugate solution briefly in a microcentrifuge before use. Add only the supernatant to the experiment. This step eliminates any protein aggregates that may have formed during storage, thereby reducing nonspecific background staining.

Because staining protocols vary with application, the appropriate dilution of antibody should be determined empirically. For the fluorophore- and biotin-labeled antibodies, a final concentration of 1-10 µg/mL should be satisfactory for most immunohistochemical applications. For flow cytometry applications, 0.06-1.0 µg per 1 × 10⁶ cells should yield satisfactory results.

General Protocols Immunofluorescence Protocol for Microscopy

There are many methods for immunofluorescence staining. The protocol below is a general guideline for staining cells and should be optimized or modified to obtain the best results for each particular application.

1. Coverslip preparation for adherent cells

- 1.1 Culture cells on slide chambers or sterile glass coverslips We recommend 18 x 18 mm square coverslips in 6-well plates or 4-well chamber slides.
- 1.2 Allow cells to adhere and treat as desired.
- 1.3 Rinse cells gently with PBS.

2. Coverslip preparation for non-adherent cells

- 2.1 Coat coverslips with 0.01% poly-L-lysine solution for 10 minutes at room temperature.
- 2.2 Aspirate the poly-L-lysine solution and allow coverslips to dry completely.
- 2.3 Centrifuge cells in medium and resuspend in PBS. Transfer cells to coverslips.
- 2.4 Incubate for 30-60 minutes. Check for adherence by microscope.

3. Fixation and Staining

- 3.1 Fix with 4% paraformaldehyde/PBS, 15 min.
- 3.2 Rinse twice with PBS to remove traces of fixative.
- 3.3 Permeabilize with 0.1 0.5% TritonX-100/PBS, 5-10 min.
- 3.4 Block with blocking agent such as with 5% BSA or normal goat serum in PBS, 30 min.
- 3.5 Dilute primary antibody in dilution buffer as recommended in the specific product's datasheet. Overlay enough diluted antibody to cover cells on coverslip (150-200 µL is usually sufficient to cover the surface area) or add to each chamber of the chamber slides. Keep slips covered or in a humidified chamber to avoid evaporation.
- 3.6 Rinse three times with PBS, 5 min each wash.
- 3.7 Dilute fluorescent secondary antibody in dilution buffer and incubate for 1 hour at room temperature. General range for IgG conjugates is between 1-10 µg/mL for most applications. Cell samples without primary antibody incubation is recommended for background control. Keep

- slips covered or in a humidified chamber to avoid evaporation.
- 3.8 Rinse three times with PBS, 5 min each wash.
- 3.9 Additional staining with fluorescent nuclear stains or phalloidins can be done at this step.
- 3.10 Invert each coverslip onto a pre-cleaned slide with fluorescence anti-fade mounting media. Seal edges with clear polish if desired.
- 3.11 Store slides in the dark at 4°C.

Staining Protocol for Flow Cytometry

There are many alternative procedures that can be used for specific staining experiments. The protocol below is a general guideline for flow cytometry and should be optimized or modified for each application.

- 1. Aliquot 1 \times 10 6 cells into 12 \times 75 mm polypropylene tubes for flow cytometry.
- For intracellular staining, cells can be fixed first to ensure stability of soluble antigens or antigens with short half-lives.
 We recommend a fix and perm kit from reliable manufacturers. Follow manufacturer's instructions.
- Add the primary antibody or isotype control at the appropriate dilution to the assay tubes. Incubate according to manufacturer's instructions.
- 4. Rinse cells twice by centrifugation with 2-3 mL incubation buffer
- Decant supernatant and re-suspend the pellet in remaining volume of wash.
- Add fluorescent secondary antibody and incubate for 20-30 minutes. General range for secondary antibodies is between 1-10 μg/mL for IgG conjugates for most applications.
- Rinse cells twice by centrifugation with 2-3 mL incubation buffer. Centrifuge to collect cells after each wash. Decant supernatant.
- Resuspend cells in 0.5 mL of diluent of choice to analyze on flow cytometer. Acquire data using the correct channel.

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