Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 610-102-121

Mouse IgG (H&L) Secondary Antibody Fluorescein Conjugated Pre-Adsorbed

Overview

Description:	Goat Anti-Mouse IgG (H&L) Antibody Fluorescein Conjugated (Min X Bv Ch Gt GP Ham Hs Hu Rb Rt & Sh Serum Proteins) - 610-102-121
Item No.:	610-102-121
Size:	1 mg
Applications:	Dot Blot, WB, IF, IHC
Reactivity:	Mouse
Host Species:	Goat

Product Details

Background:	Anti-Mouse IgG Fluorescein Antibody generated in goat detects reactivity to Mouse IgG. Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75% of serum immunoglobulins. Immunoglobulin G binds to viruses, bacteria, as well as fungi and facilitates their destruction or neutralization via agglutination (and thereby immobilizing them), activation of the compliment cascade, and opsonization for phagocytosis. The whole IgG molecule possesses both the F(c) region, recognized by high-affinity Fc receptor proteins, as well as the F(ab) region possessing the epitope-recognition site. Both the Heavy and Light chains of the antibody molecule are present. Secondary Antibodies are available in a variety of formats and conjugate types. When choosing a secondary antibody product, consideration must be given to species and immunoglobulin specificity, conjugate type, fragment and chain specificity, level of cross-reactivity, and host-species source and fragment composition.
Synonyms:	Goat Anti-Mouse IgG Secondary Antibody fluorescein Conjugated, Goat Anti-Mouse IgG Antibody FITC Conjugated, GAM-FITC, Anti-mouse IgG secondary antibody, anti-mouse IgG Fluorescein conjugated secondary antibody
Host Species:	Goat
Specificity:	IgG (H&L)
Conjugate:	Fluorescein (FITC)
Clonality:	Polyclonal
Format:	IgG

F/P Ratio:	3.08

Target Details

Reactivity:	Mouse
Immunogen:	Mouse IgG whole molecule
Purity/Specificity:	Goat Anti-Mouse IgG was prepared from monospecific antiserum by immunoaffinity chromatography using Mouse IgG coupled to agarose beads followed by solid phase adsorption (s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Fluorescein, anti-Goat Serum, Mouse IgG and Mouse Serum. No reaction was observed against Bovine, Chicken, Goat, Guinea Pig, Hamster, Horse, Human, Rabbit, Rat and Sheep Serum Proteins.

Application Details

Tested Applications:	Dot Blot, WB
Suggested Applications:	IF, IHC (Based on references)
Application Note:	Anti-Mouse IgG Fluorescein Antibody has been tested by dot blot and western blot and is ideal for Fluorescent Western Blot, FLISA, Flow Cytometry, Immunohistochemistry and Immunofluorescence Microscopy as well as other antibody detection methods.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	1:500 - 1:2,500
FLISA:	1:10,000 - 1:50,000
IF:	1:1,000 - 1:5,000
IHC:	User Optimized
WB:	User Optimized

Formulation

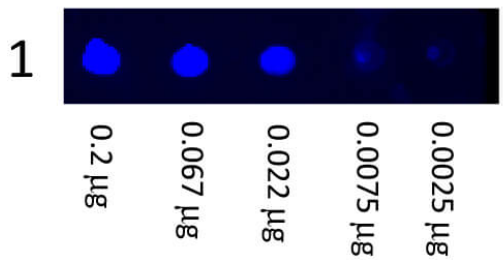
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

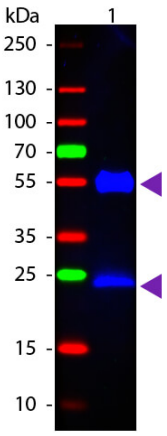
Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store anti mouse secondary antibody at 4° C prior to restoration. For extended storage aliquot antibody and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Dot Blot
Dot Blot showing the detection of Mouse IgG. A three-fold serial dilution of Mouse IgG starting at 200ng was spotted onto 0.45 ?m nitrocellulose. After blocking in 5% Blotto (p/n B501-0500) 1 Hour at 20°C, Anti-Mouse IgG (H&L) (GOAT) Antibody Fluorescien Conjugated (p/n 610-102-121) secondary antibody was used at 1:1000 in Blocking Buffer for Fluorescent Western Blotting (p/n MB-070) and imaged using the Bio-Rad VersaDoc® 4000 MP.



Western Blot
Western Blot of Goat anti-Mouse IgG Pre-Adsorbed Fluorescein Conjugated Secondary Antibody. Lane 1: Mouse IgG. Lane 2: None. Load: 50 ng per lane. Primary antibody: None. Secondary antibody: Fluorescein goat secondary antibody at 1:1,000 for 60 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 25 & 55 kDa, 25 & 55 kDa for Mouse IgG. Other band(s): None.

References

- Russell A et al. Fhod3 in zebrafish supports myofibril stability during growth of embryonic skeletal muscle. *bioRxiv [preprint]* (2025)
- Russell A et al. Fhod3 in zebrafish supports myofibril stability during growth of embryonic skeletal muscle. *Dev Dyn.* (2025)
- Liu Y et al. Overexpression of Rhodopsin or Its Mutants Leads to Energy Metabolism Dysfunction in 661w Cells. *Invest Opthalmol Vis Sci.* (2022)
- Saferali A, Tang AC, Strug LJ, et al. Immunomodulatory function of the cystic fibrosis modifier gene BPIFA1. *PLoS One.* (2020)
- Molder LT et al. Comparative interactomics analysis reveals potential regulators of α6β4 distribution in keratinocytes. *Biol Open.* (2020)
- Molder LT et al. Tetraspanin CD151 and integrin α3β1 contribute to the stabilization of integrin α6β4-containing cell-matrix adhesions. *J Cell Sci.* (2019)
- Vitacolonna M et al. In-vivo quantification of the revascularization of a human acellular dermis seeded with EPCs and MSCs in co-culture with fibroblasts and pericytes in the dorsal chamber model in pre-irradiated tissue. *Cell Tissue Bank.* (2017)
- Zhang K et al. Predicting Abdominal Aortic Aneurysm Target Genes by Level-2 Protein-Protein Interaction. *PLoS One* (2015)
- Adefolaju GA et al. BAX/BCL-2 mRNA and protein expression in human breast MCF-7 cells exposed to drug vehicles-methanol and dimethyl sulfoxide (DMSO) for 24 hrs. *Niger Med J.* (2015)
- Andreoletti O et al. Astrocytes accumulate 4-hydroxynonenal adducts in murine scrapie and human Creutzfeldt–Jakob disease. *Neurobiol Dis.* (2002)
- Cavaglia M et al. Regional variation in brain capillary density and vascular response to ischemia. *Brain Res.* (2001)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.