

**Datasheet for 610-113-121****Mouse IgG (H&L) Antibody CY5.5 Conjugated Pre-Adsorbed****Overview**

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| <b>Description:</b>  | Goat Anti-Mouse IgG (H&L) Antibody CY5.5 Conjugated (Min X Bv Ch Gt GP Ham Hs Hu Rb Rt & Sh Serum Proteins) - 610-113-121 |
| <b>Item No.:</b>     | 610-113-121                                                                                                               |
| <b>Size:</b>         | 1 mg                                                                                                                      |
| <b>Applications:</b> | Dot Blot, WB, IF                                                                                                          |
| <b>Reactivity:</b>   | Mouse                                                                                                                     |
| <b>Host Species:</b> | Goat                                                                                                                      |

**Product Details**

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| <b>Background:</b>   | Anti-Mouse IgG Cy5.5 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 complement 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. |
| <b>Synonyms:</b>     | Goat Anti-Mouse IgG (H&L) Antibody CY5.5 Conjugated Pre-Adsorbed, Goat Anti Mouse IgG Antibody CY5.5 Conjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Host Species:</b> | Goat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Specificity:</b>  | IgG (H&L)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Conjugate:</b>    | Cy5.5™                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>F/P Ratio:</b>    | 4.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## Target Details

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Reactivity:</b>         | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Immunogen:</b>          | Mouse IgG whole molecule                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity/Specificity:</b> | This product 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 and extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against 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

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| <b>Tested Applications:</b>    | Dot Blot, WB                                                                                                                                                                                                                                                                                                                        |
| <b>Suggested Applications:</b> | IF (Based on references)                                                                                                                                                                                                                                                                                                            |
| <b>Application Note:</b>       | Anti-Mouse IgG Cy5.5 Antibody has been tested by dot blot and western blot and is designed for immunofluorescence microscopy, fluorescence based plate assays (FLISA) and fluorescent western blotting. This product is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms. |
| <b>Assay Dilutions:</b>        | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                                     |
| <b>FC:</b>                     | 1:500 - 1:2,500                                                                                                                                                                                                                                                                                                                     |
| <b>FLISA:</b>                  | 1:10,000 - 1:50,000                                                                                                                                                                                                                                                                                                                 |
| <b>IF:</b>                     | 1:1,000 - 1:5,000                                                                                                                                                                                                                                                                                                                   |

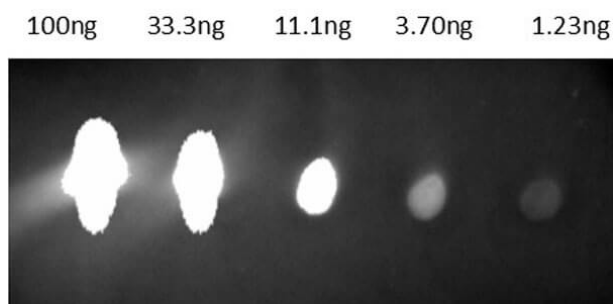
## Formulation

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|-------------------------------|------------------------------------------------------------------------|
| <b>Physical State:</b>        | Lyophilized                                                            |
| <b>Concentration:</b>         | 1.0 mg/mL by UV absorbance at 280 nm                                   |
| <b>Buffer:</b>                | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2             |
| <b>Preservative:</b>          | 0.01% (w/v) Sodium Azide                                               |
| <b>Stabilizer:</b>            | 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free |
| <b>Reconstitution Volume:</b> | 1.0 mL                                                                 |
| <b>Reconstitution Buffer:</b> | Restore with deionized water (or equivalent)                           |

## Shipping & Handling

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| <b>Shipping Condition:</b> | Ambient                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage Condition:</b>  | Store vial at 4° C prior to restoration. For extended storage aliquot contents 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. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                                                                                                                           |

## Images



### Dot Blot

Dot Blot results of Goat Anti-Mouse IgG Antibody CY 5.5 Conjugate. Dots are Mouse IgG: (1) 100ng, (2) 33.3ng, (3) 11.1ng, (4) 3.70ng, (5) 1.23ng. Primary Antibody: none. Secondary Antibody: Goat Anti-Mouse IgG Antibody CY5.5 Conjugate at 1ug/mL in MB-070 1hr RT. Imaged with BioRad ChemiDoc, Fluorescein filter.

## References

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- Gawronska-Kozak B et al. Gender Differences in Post-Operative Human Skin. *Biomedicines*. (2023)
- Machcinska S et al. Hypoxia reveals a new function of Foxn1 in the keratinocyte antioxidant defense system. *FASEB J.* (2022)
- Machcinska S et al. Impairment of the Hif-1 $\alpha$  regulatory pathway in Foxn1-deficient (Foxn1 $^{-/-}$ ) mice affects the skin wound healing process. *FASEB J.* (2021)
- Kur-Piotrowska et al. Foxn1 expression in keratinocytes is stimulated by hypoxia: further evidence of its role in skin wound healing. *Scientific Reports* (2018)
- Yamashita AMS et al. Balance between S-nitrosylation and denitrosylation modulates myoblast proliferation independently of soluble guanylyl cyclase activation. *Am J Physiol Cell Physiol*. (2017)
- Markoullis K et al. Mycoplasma contamination of murine embryonic stem cells affects cell parameters, germline transmission and chimeric progeny. *Transgenic Res.* (2009)

## Disclaimer

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