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Datasheet for 610-145-121

# Mouse IgG (H&L) Antibody DyLight™ 800 Conjugated Pre-Adsorbed

## Overview

| | |
|---|---|
| **Description:** | Goat Anti-Mouse IgG (H&L) Antibody DyLight™ 800 Conjugated (Min X Bv Ch Gt GP Ham Hs Hu Rb Rt & Sh Serum Proteins) - 610-145-121 |
| **Item No.:** | 610-145-121 |
| **Size:** | 100 µg |
| **Applications:** | Dot Blot, WB, IF |
| **Reactivity:** | Mouse |
| **Host Species:** | Goat |

## Product Details

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|---|---|
| **Background:** | Anti-Mouse IgG DyLight 800 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 DyLight™800 Conjugated, Goat Anti-Mouse IgG Antibody DyLight™800 Conjugated, Anti-mouse IgG secondary antibody, anti-mouse IgG DyLight™800 conjugated secondary antibody |
| **Host Species:** | Goat |
| **Specificity:** | IgG (H&L) |
| **Conjugate:** | DyLight™ 800 |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |
| **F/P Ratio:** | 2.25 |

## Target Details

| | |
|---|---|
| **Reactivity:** | Mouse |
| **Immunogen:** | Mouse IgG whole molecule |
| **Purity/Specificity:** | 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. 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. This antibody will react with heavy chains of mouse IgG and with light chains of most mouse immunoglobulins. |
| **Relevant Links:** | • 610-145-121 SDS |

## Application Details

| | |
|---|---|
| **Tested Applications:** | Dot Blot, WB |
| **Suggested Applications:** | IF (Based on references) |
| **Application Note:** | Anti-Mouse IgG DyLight 800 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. The emission spectra for this DyLight™ conjugate match the principle output wavelengths of most common fluorescence instrumentation. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **FLISA:** | >1:20,000 |
| **IF:** | >1:5,000 |
| **WB:** | >1:10,000 |

## Formulation

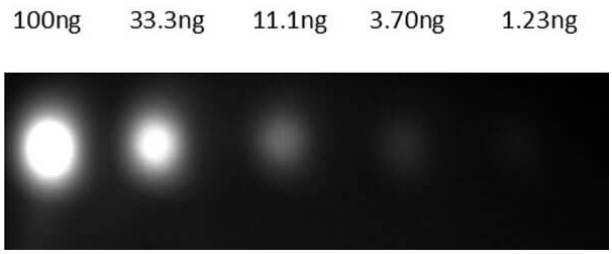
| | |
|---|---|
| **Physical State:** | Lyophilized |
| **Concentration:** | 1.0 mg/mL by UV absorbance at 280 nm |
| **Buffer:** | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| **Preservative:** | 0.01% (w/v) Sodium Azide |

| | |
|---|---|
| **Stabilizer:** | 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free |
| **Reconstitution Volume:** | 100 µL |
| **Reconstitution Buffer:** | Restore with deionized water (or equivalent) |

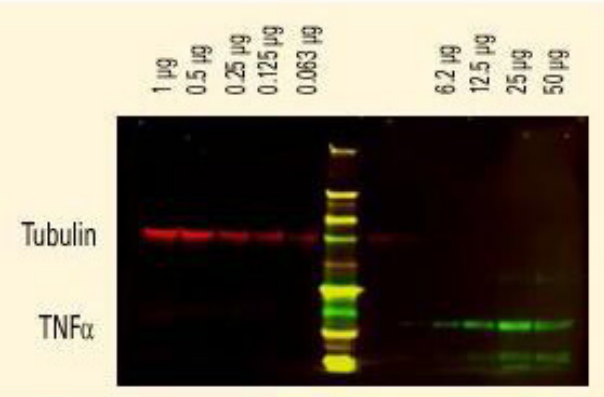
## Shipping & Handling

| | |
|---|---|
| **Shipping Condition:** | Ambient |
| **Storage Condition:** | 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. |
| **Expiration:** | Expiration date is one (1) year from date of receipt. |

## Images



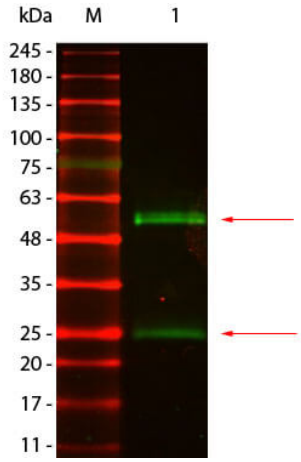

**Dot Blot**
Dot Blot results of Goat Anti-Mouse IgG Antibody DyLight™800 Conjugate. Dots are Mouse IgG: (1) 100ng, (2) 33.3ng, (3) 11.1ng, (4) 3.70ng, (5) 1.23ng. Primary Antibody: none. Secondary Antibody: Goat Anti-Mouse IgG Antibody DyLight™800 Conjugate at 1ug/mL in MB-070 1hr RT. Imaged with GBox, DyLight™ 800 Filter.



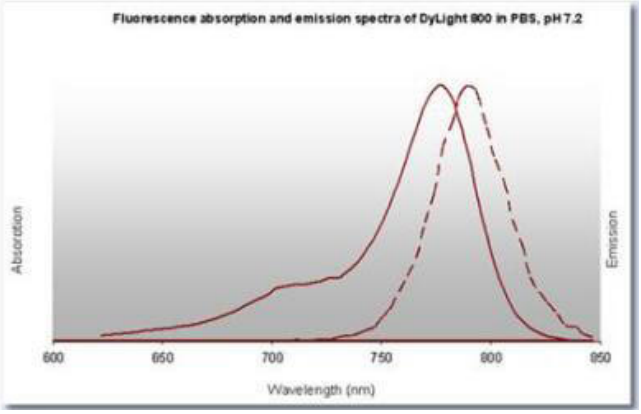

**Western Blot**
DyLight™ dyes can be used for two-color Western Blot detection with low background and high signal. Anti-tubulin was detected using a DyLight™ 680 conjugate. Anti-TNFa was detected using a DyLight™ 800 conjugate. The image was captured using the Odyssey® Infrared Imaging System developed by LI-COR.

**Diagram**
Properties of DyLight™ Conjugates.

| Emission | Color | DyLight™ Dye | Ex/Em (nm) | ε ($M^{-1}$ $cm^{-1}$) | Similar Dyes |
|---|---|---|---|---|---|
| **Blue** | | **405** | **400/420** | **30,000** | **Alexa™ 405, Cascade Blue** |
| Green | | 488 | 493/518 | 70,000 | Alexa™ 488, Cy2®, FITC |
| Yellow | | 549 | 550/568 | 150,000 | Alexa™ 546, Alexa 555, Cy3®,TRITC |
| Red | | 649 | 646/674 | 250,000 | Alexa™ 647, Cy5® |
| Near Infrared | | 680 | 682/715 | 140,000 | Alexa™ 680, Cy5.5®, IRDye™ 700 |
| Infrared | | 800 | 770/794 | 270,000 | IRDye™ 800 |




**Western Blot**
Western Blot of Goat anti-Mouse IgG Antibody DyLight 800 Conjugated Pre-absorbed. Lane 1: Mouse IgG. Load: 50 ng per lane. Primary antibody: none. Secondary antibody: Goat anti-Mouse IgG Antibody DyLight 800 Conjugated Pre-absorbed at 1:1,000 for 60 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 55 kDa, 25 kDa for Mouse IgG.




**Diagram**

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