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Datasheet for 620-141-440

# Golden Syrian & Armenian Hamster IgG (H&L) Antibody DyLight™ 488 Conjugated Pre-Adsorbed

## Overview

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| **Description:** | Goat Anti-Golden Syrian & Armenian Hamster IgG (H&L) Antibody DyLight™ 488 Conjugated (Min X MOUSE and RAT Serum Proteins) - 620-141-440 |
| **Item No.:** | 620-141-440 |
| **Size:** | 100 µg |
| **Applications:** | WB |
| **Reactivity:** | Armenian Hamster, Golden Syrian Hamster |
| **Host Species:** | Goat |

## Product Details

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| **Background:** | Anti-Golden Syrian & Armenian Hamster IgG DyLight Antibody generated in goat detects Golden Syrian & Armenian Hamster 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 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-Golden Syrian & Armenian Hamster IgG DyLight™488 conjugated antibody, goat anti-Hamster IgG DyLight™ 488 conjugated antibody |
| **Host Species:** | Goat |
| **Specificity:** | IgG (H&L) |
| **Conjugate:** | DyLight™ 488 |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |

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| **F/P Ratio:** | 4.2 |

## Target Details

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| **Reactivity:** | Armenian Hamster, Golden Syrian Hamster |
| **Immunogen:** | Armenian and Golden Syrian Hamster IgG, whole molecule |
| **Purity/Specificity:** | This product was prepared from monospecific antiserum by immunoaffinity chromatography using Golden Syrian & Armenian Hamster 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, Golden Syrian & Armenian Hamster IgG and Golden Syrian & Armenian Hamster Serum. No reaction was observed against Mouse or Rat Serum Proteins. This antibody will react with heavy chains of Golden Syrian & Armenian Hamster IgG and with light chains of most Golden Syrian & Armenian Hamster immunoglobulins. |

## Application Details

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| **Tested Applications:** | WB |
| **Application Note:** | Anti-Golden Syrian & Armenian Hamster IgG DyLight Antibody has been tested by 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

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| **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 |

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| **Reconstitution Volume:** | 100 µL |
| **Reconstitution Buffer:** | Restore with deionized water (or equivalent) |

## Shipping & Handling

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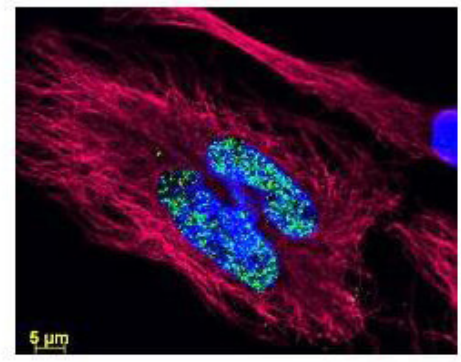
| **Shipping Condition:** | Ambient |
| **Storage Condition:** | Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product 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

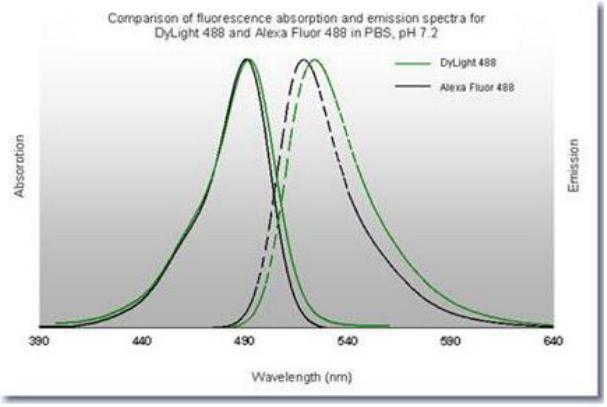
**Diagram**
Properties of DyLight™ Fluorescent Dyes.

| 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 |




**Immunofluorescence Microscopy**
DyLight™ dyes can be used for multi-color immunofluorescence microscopy with uniform fluorescence intensity throughout the image. DyLight™ dyes are exceptionally bright and photostable and are optimized for microscopy and microarray detection methods. This image shows anti-histone detection using a DyLight™ 488 conjugate (green). Anti-Tubulin was detected using a DyLight™ 549 conjugate (red). Nuclei were counter-stained using DAPI (blue). The image was captured using an Axio Imager.Z1 (Zeiss Micro Imaging Inc).

**Diagram**




## Disclaimer

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