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

Datasheet for 620-101-440

# Golden Syrian & Armenian Hamster IgG (H&L) Pre-Adsorbed

## Overview

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| **Description:** | Goat Anti-Golden Syrian & Armenian Hamster IgG (H&L) (Min X MOUSE and RAT Serum Proteins) - 620-101-440 |
| **Item No.:** | 620-101-440 |
| **Size:** | 1 mg |
| **Applications:** | Dot Blot, ELISA |
| **Reactivity:** | Armenian Hamster, Golden Syrian Hamster |
| **Host Species:** | Goat |

## Product Details

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| **Background:** | Anti-Golden Syrian & Armenian Hamster IgG 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 antibody, goat anti-Hamster IgG antibody |
| **Host Species:** | Goat |
| **Specificity:** | IgG (H&L) |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |

## Target Details

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| **Reactivity:** | Armenian Hamster, Golden Syrian Hamster |

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| **Immunogen:** | Armenian and Golden Syrian Hamster IgG, whole molecule |
| **Purity/Specificity:** | Secondary Antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Golden Syrian and 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 Hamster IgG and Armenian Hamster IgG. No reaction was observed against Mouse or Rat serum proteins. Specificity was confirmed using ELISA at less than 1% cross reactivity. |

## Application Details

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| **Tested Applications:** | Dot Blot, ELISA |
| **Application Note:** | Anti-Golden Syrian & Armenian Hamster IgG antibody has been tested by ELISA and dot blot and is suitable for ELISA, western blot, and immunohistochemistry, as well as other assays requiring lot-to-lot consistency. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **ELISA:** | 1:20,000 - 1:100,000 |
| **IHC:** | 1:1,000 - 1:5,000 |
| **WB:** | 1:2,000 - 1:10,000 |

## Formulation

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| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 1.158 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:** | None |

## Shipping & Handling

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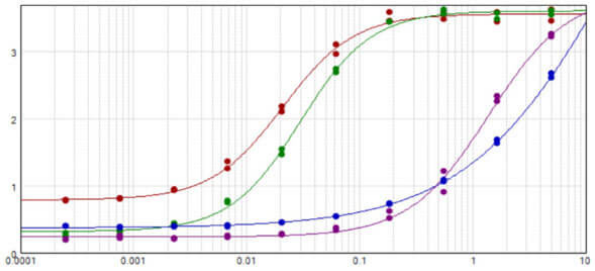
| **Shipping Condition:** | Wet Ice |
| **Storage Condition:** | Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. |
| **Expiration:** | Expiration date is one (1) year from date of receipt. |

## Images




**ELISA**
ELISA results of purified Goat Anti-Golden Syrian & Armenian Hamster IgG (Min X Mouse and Rat Serum Proteins) tested against purified Golden Syrian Hamster IgG and Armenian Hamster IgG. Each well was coated in duplicate with 1.0 µg of protein from different species. Golden Syrian Hamster IgG (Green Line), Armenian Hamster IgG (Red Line), Mouse IgG [p/n 010-0102] (Blue Line), and Rat IgG [012-0102] (Purple Line). The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using Blocking buffer (p/n MB-060-1000), Donkey Anti-Goat IgG HRP conjugated (p/n 605-703-125), and TMB substrate (p/n TMBE-1000).

## Disclaimer