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Datasheet for 620-145-440

Golden Syrian & Armenian Hamster IgG (H&L) Antibody DyLight™ 800 Conjugated Pre-Adsorbed

Overview

Description:	Goat Anti-Golden Syrian & Armenian Hamster IgG (H&L) Antibody DyLight™ 800 Conjugated (Min X MOUSE and RAT Serum Proteins) - 620-145-440
Item No.:	620-145-440
Size:	100 µg
Applications:	WB, Other
Reactivity:	Armenian Hamster, Golden Syrian Hamster
Host Species:	Goat

Product Details

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™800 conjugated antibody, goat anti-Hamster IgG DyLight™ 800 conjugated antibody
Host Species:	Goat
Specificity:	IgG (H&L)
Conjugate:	DyLight™ 800
Clonality:	Polyclonal
Format:	IgG

F/P Ratio:	1.9

Target Details

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 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

Tested Applications:	WB
Suggested Applications:	Other (Based on references)
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:	1:10,000-1:25,000

Formulation

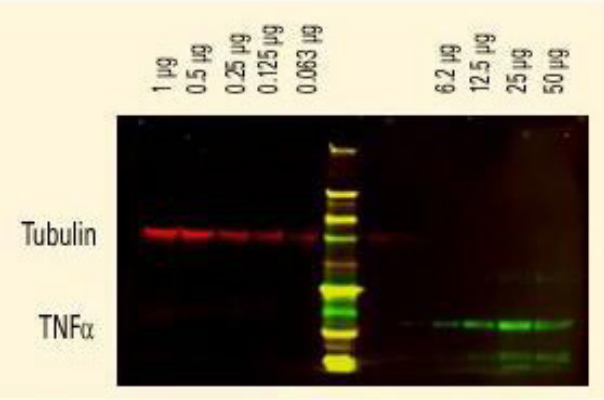
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide

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

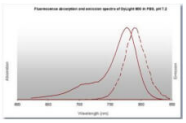


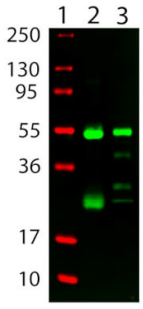
Western Blot
DyLight™ dyes can be used for two-color western blot detection with low background and high signal. Anti-tubulin was detected using a DyLight™ 680 conjugate. Anti-TNFa was detected using a DyLight™ 800 conjugate. The image was captured using the Odyssey® Infrared Imaging System developed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

Diagram





Western Blot
Western Blot showing detection of Golden Syrian Hamster IgG (Lane 2) and Armenian Hamster IgG (Lane 3) was run on a 4-20% gel and transferred to 0.45 µm nitrocellulose. After blocking with 5% Blotto (p/n B501-0500) 30 min at 20°C, Anti-Golden Syrian & Armenian Hamster IgG (H&L) (GOAT) Antibody DyLight™ 800 Conjugated (p/n 620-145-440) secondary antibody was used at 1:5000 in Blocking Buffer for Fluorescent Western Blotting (p/n MB-070) and imaged on the LiCor Odyssey imaging system. Molecular weight markers are in lane 1.

References

- Saul S et al. Intranasal bovine/human parainfluenza virus 3 vaccine candidates expressing human metapneumovirus wild-type or pre-fusion F protein elicit protective immunity against human metapneumovirus in hamsters. *J Virol.* (2025)
- Deng J et al. ULK1 inhibition overcomes compromised antigen presentation and restores antitumor immunity in LKB1-mutant lung cancer. *Nat Cancer.* (2021)

Disclaimer

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