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Datasheet for 606-142-129

Guinea Pig IgG (H&L) Antibody DyLight™ 549 Conjugated Pre-Adsorbed

Overview

Description:	Goat Anti-Guinea Pig IgG (H&L) Antibody DyLight™ 549 Conjugated (Min X Bv Ch Gt Ham Hs Hu Ms Rb Rt & Sh Serum Proteins) - 606-142-129
Item No.:	606-142-129
Size:	100 µg
Applications:	IF, IHC, Multiplex
Reactivity:	Guinea Pig
Host Species:	Goat

Product Details

Background:	Anti-Guinea Pig IgG DyLight Antibody generated in goat detects guinea pig 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-Guinea Pig IgG DyLight 549™ Conjugation, Goat Anti Guinea Pig IgG DyLight 549™ conjugated
Host Species:	Goat
Specificity:	IgG (H&L)
Conjugate:	DyLight™ 549
Clonality:	Polyclonal
Format:	IgG
F/P Ratio:	3.6

Target Details

Reactivity:	Guinea Pig
Immunogen:	Guinea Pig IgG whole molecule
Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Guinea Pig 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, Guinea Pig IgG and Guinea Pig Serum. No reaction was observed against Bovine, Chicken, Goat, Hamster, Horse, Human, Mouse, Rabbit, Rat or Sheep Serum Proteins. This antibody will react with heavy chains of Guinea Pig IgG and with light chains of most Guinea Pig immunoglobulins.

Application Details

Suggested Applications:	IF, IHC, Multiplex (Based on references)
Application Note:	The emission spectra for this DyLight™ conjugate match the principle output wavelengths of most common fluorescence instrumentation. This product 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.
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

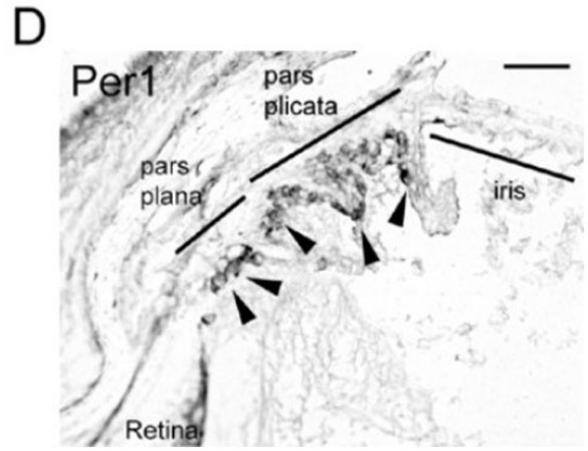
Formulation

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)

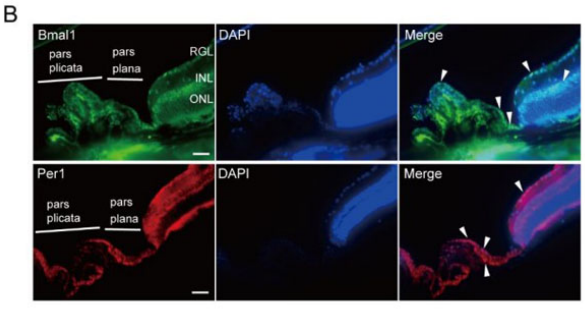
Shipping & Handling

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.

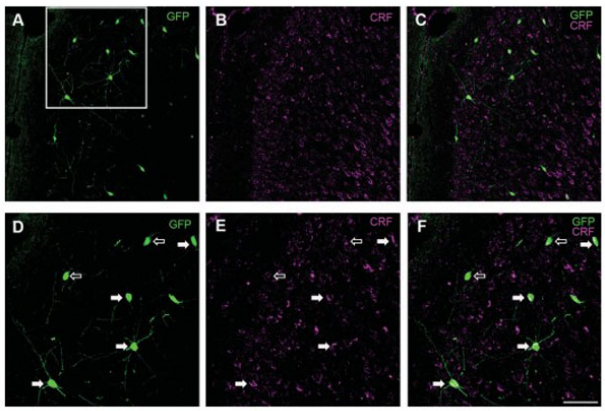
Images



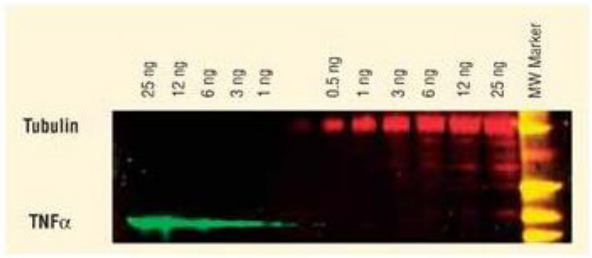
Immunohistochemistry
Localizations of GR, Adrb2, and Bmal1 in the ciliary body. Representative images of (A) GR, (B) adrenergic β2-receptors (Adrb2), (C) Bmal1, and (D) Per1 immunoreactivity in the retina and ciliary body of albino Balb/c mice by immunohistochemistry. Strong immunoreactivity (arrowhead) was seen in the pars plana of the ciliary body. Scale bar: 100 µm. CPE, ciliary pigmented epithelium; INL, inner nuclear layer; ONL, outer nuclear layer; RGL, retinal ganglion cell layer; TM, trabecular meshwork. Figure 3. PMID: 32182332.



Immunofluorescence Microscopy
Immunohistochemical analysis in the retina and ciliary body of C57BL/6J mice. (A) Adrenergic β2-receptors (Adrb2) and glucocorticoid receptor (GR) immunoreactivity in the retina and ciliary body of C57BL/6J mice. (B) Immunoreactivity of clock protein Bmal1 and Per1 in the retina and ciliary body of C57BL/6J mice. Fluorescence immunohistochemistry revealed that immunoreactivity (white arrowhead) localized in the epithelia of the ciliary body. Scale bar: 100 µm. DAPI, 4',6-diamidino-2-phenylindole. RGL, retinal ganglion cell layer; INL, inner nuclear layer; ONL, outer nuclear layer. Fig. S4. PMID: 32182332.



Immunofluorescence Microscopy
Analysis of corticotropin-releasing factor (CRF)-expressing interneurons in the cingulate cortex of FVB-Tg (GadGFP)45704Swn/J mice. A–C: Representative confocal images of cells in the cingulate cortex immunopositive for GFP (green) and CRF (magenta). The white square in A represents the area that is shown at higher magnification in D–F. D–F: Detailed analysis of CRF expression in GFP 1 cells in the cingulate gyrus. Solid white arrows indicate GFP1/CRF 1 cells and open white arrows GFP1/CRF2 cells. Note the widespread CRF 1 punctae throughout cells in layers II–III of the cingulate cortex. Scale bar in F 5 50 lm for A–C; 25 lm for D–F. Figure 9. PMID: .26669716

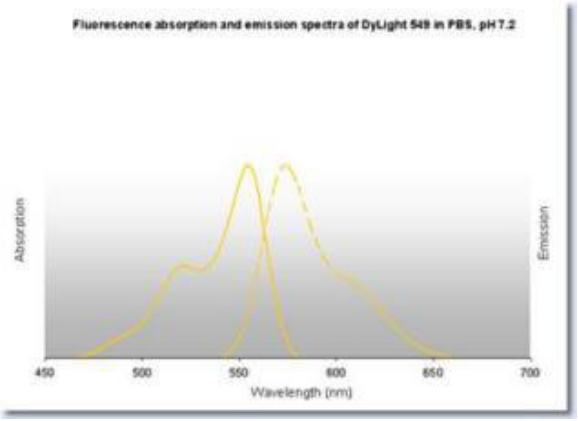


Western Blot
DyLight™ dyes can be used for two-color western blot detection with low background and high signal. Anti-tubulin was detected using a DyLight™ 549 conjugate. Anti-TNFa was detected using a DyLight™ 649 conjugate. The image was captured using the Typhoon™ 9410 Imaging System.

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



References

- Ikegami K. et al. Circadian Regulation of IOP Rhythm by Dual Pathways of Glucocorticoids and the Sympathetic Nervous System. *Invest. Ophthalmol. Vis. Sci.* (2020)
- Riedemann T et al. Immunocytochemical heterogeneity of somatostatin-expressing GABAergic interneurons in layers II and III of the mouse cingulate cortex: A combined immunofluorescence/design-based stereologic study. *J Comp Neurol.* (2016)

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