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Datasheet for 609-145-006

Human IgA (alpha chain) Antibody DyLight™800 Conjugated

Overview

Description:	Goat Anti-Human IgA (alpha chain) Antibody DyLight™800 Conjugated - 609-145-006
Item No.:	609-145-006
Size:	100 µg
Applications:	Dot Blot, Microarray
Reactivity:	Human
Host Species:	Goat

Product Details

Background:	Anti-Human IgA DyLight 800 Antibody generated in goat detects immunoglobulin A (alpha chain) from human. Immunoglobulin A (IgA) is an antibody that plays a critical role in mucosal immunity. IgA has two subclasses (IgA1 and IgA2) and can exist in a dimeric form called secretory IgA (sIgA). 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 Human IgA (alpha chain) Antibody DyLight 800™Conjugated, Goat Anti-Human IgA (alpha chain) Antibody DyLight 800™Conjugated, Goat Anti Human IgA Antibody DyLight 800™Conjugated
Host Species:	Goat
Specificity:	IgA
Conjugate:	DyLight™ 800
Clonality:	Polyclonal
Format:	IgG
F/P Ratio:	2.1

Target Details

Reactivity:	Human

Immunogen:	Human IgA alpha heavy chain
Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Human IgA 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, Human IgA and Human Serum. No reaction was observed against Human IgM or Human IgG. ELISA was used to confirm specificity minimal cross reactivity against other human heavy or light chain isotypes.

Application Details

Tested Applications:	Dot Blot
Suggested Applications:	Microarray (Based on references)
Application Note:	Anti-Human IgA DyLight 800 Antibody has been tested by dot 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.
ELISA:	1:80,000
FLISA:	>1:20,000
IF:	>1:5,000
IHC:	1:1,000 - 1:5,000
WB:	1:2,000 - 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.

References

- Oliveira JR et al. Immunodominant antibody responses directed to SARS-CoV-2 hotspot mutation sites and risk of immune escape. *Front Immunol.* (2023)
- N'Guessan A et al. Selection for immune evasion in SARS-CoV-2 revealed by high-resolution epitope mapping and sequence analysis. *iScience.* (2023)
- Fathi, A et al. Increased neutralization and IgG epitope identification after MVA-MERS-S booster vaccination against Middle East respiratory syndrome. *Nature Communications* (2022)

Disclaimer

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