

**Datasheet for 609-145-006****Human IgA (alpha chain) Antibody DyLight™800 Conjugated****Overview**

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

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>Background:</b>   | 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. |
| <b>Synonyms:</b>     | 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                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Host Species:</b> | Goat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Specificity:</b>  | IgA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Conjugate:</b>    | DyLight™ 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>F/P Ratio:</b>    | 2.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

**Target Details**

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| <b>Reactivity:</b> | Human |
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| <b>Immunogen:</b>          | Human IgA alpha heavy chain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity/Specificity:</b> | 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

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| <b>Tested Applications:</b>    | Dot Blot                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Suggested Applications:</b> | Microarray (Based on references)                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Application Note:</b>       | 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. |
| <b>Assay Dilutions:</b>        | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                                                                                                                                                               |
| <b>ELISA:</b>                  | 1:80,000                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>FLISA:</b>                  | >1:20,000                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>IF:</b>                     | >1:5,000                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>IHC:</b>                    | 1:1,000 - 1:5,000                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>WB:</b>                     | 1:2,000 - 1:10,000                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Formulation

|                               |                                                                        |
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| <b>Physical State:</b>        | Lyophilized                                                            |
| <b>Concentration:</b>         | 1.0 mg/mL by UV absorbance at 280 nm                                   |
| <b>Buffer:</b>                | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2             |
| <b>Preservative:</b>          | 0.01% (w/v) Sodium Azide                                               |
| <b>Stabilizer:</b>            | 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free |
| <b>Reconstitution Volume:</b> | 100 µL                                                                 |
| <b>Reconstitution Buffer:</b> | Restore with deionized water (or equivalent)                           |

## Shipping & Handling

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| <b>Shipping Condition:</b> | Ambient                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage Condition:</b>  | 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. |
| <b>Expiration:</b>         | 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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