

**Datasheet for 605-700-002****Goat IgG (H&L) Antibody Rhodamine Conjugated****Overview**

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| <b>Description:</b>  | Donkey Anti-Goat IgG (H&L) Antibody Rhodamine Conjugated - 605-700-002 |
| <b>Item No.:</b>     | 605-700-002                                                            |
| <b>Size:</b>         | 2 mg                                                                   |
| <b>Applications:</b> | Dot Blot, WB                                                           |
| <b>Reactivity:</b>   | Goat                                                                   |
| <b>Host Species:</b> | Donkey                                                                 |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Background:</b>   | Anti-Goat IgG Rhodamine Antibody generated in donkey detects goat 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. |
| <b>Synonyms:</b>     | Donkey anti-Goat IgG Antibody Rhodamine conjugation, Donkey anti-Goat IgG TRITC conjugated antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Host Species:</b> | Donkey                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Specificity:</b>  | IgG (H&L)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Conjugate:</b>    | Rhodamine (TRITC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>F/P Ratio:</b>    | 4.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

**Target Details**

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| <b>Reactivity:</b> | Goat |
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| <b>Immunogen:</b>          | Goat IgG whole molecule                                                                                                                                                                                                                                                                                                          |
| <b>Purity/Specificity:</b> | This product was prepared from monospecific antiserum by immunoaffinity chromatography using Goat 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-Donkey Serum, Goat IgG and Goat Serum. |

## Application Details

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| <b>Tested Applications:</b>    | Dot Blot                                                                                                                                                                                                                                                                                                                        |
| <b>Suggested Applications:</b> | WB (Based on references)                                                                                                                                                                                                                                                                                                        |
| <b>Application Note:</b>       | Anti-Goat IgG Rhodamine Antibody has been tested by dot blot. 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. |
| <b>Assay Dilutions:</b>        | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                                 |
| <b>FC:</b>                     | 1:500 - 1:2,500                                                                                                                                                                                                                                                                                                                 |
| <b>FLISA:</b>                  | 1:10,000 - 1:50,000                                                                                                                                                                                                                                                                                                             |
| <b>IF:</b>                     | 1:1,000 - 1:5,000                                                                                                                                                                                                                                                                                                               |

## Formulation

|                               |                                                                        |
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| <b>Physical State:</b>        | Lyophilized                                                            |
| <b>Concentration:</b>         | 2.0 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> | 1.0 mL                                                                 |
| <b>Reconstitution Buffer:</b> | Restore with deionized water (or equivalent)                           |

## Shipping & Handling

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|----------------------------|---------|
| <b>Shipping Condition:</b> | Ambient |
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**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.

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**Expiration:** Expiration date is one (1) year from date of receipt.

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## References

- Tong et al. Monocyte Trafficking, Engraftment, and Delivery of Nanoparticles and an Exogenous Gene into the Acutely Inflamed Brain Tissue - Evaluations on Monocyte-Based Delivery System for the Central Nervous System. *PLOS One* (2016)

## Disclaimer

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