

## Datasheet for 005-0005

## Goat IgG Fab Rhodamine

### Overview

|                      |                                                       |
|----------------------|-------------------------------------------------------|
| <b>Description:</b>  | Goat IgG Fab Fragment Rhodamine Conjugated - 005-0005 |
| <b>Item No.:</b>     | 005-0005                                              |
| <b>Size:</b>         | 1 mg                                                  |
| <b>Applications:</b> | SDS-PAGE                                              |
| <b>Origin:</b>       | Goat                                                  |

### Product Details

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Background:</b>        | 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 complement cascade, and opsonization for phagocytosis. This product possesses the F(ab) region possessing the epitope-recognition site, both heavy and light chains of the antibody molecule are present. |
| <b>Synonyms:</b>          | Goat IgG Fab fragment Rhodamine conjugated, Goat IgG Fab fragment TRITC conjugated                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species of Origin:</b> | Goat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Conjugate:</b>         | Rhodamine (TRITC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Format:</b>            | IgG Fab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Type:</b>              | Native Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>F/P Ratio:</b>         | 1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

### Target Details

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| <b>Purity/Specificity:</b> | This product was prepared from normal serum by delipidation, salt fractionation, ion exchange chromatography followed by papain digestion and extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat IgG, anti-Goat IgG F(ab') <sub>2</sub> and anti-Goat Serum. No reaction was observed against anti-Goat IgG F(c) or anti-Papain. |
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## Application Details

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| <b>Tested Applications:</b> | SDS-PAGE                                                                                                                                                                                                                                                                                                                          |
| <b>Application Note:</b>    | Goat IgG F(ab) fragment Rhodamine conjugated has been tested by SDS-PAGE 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. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                                   |

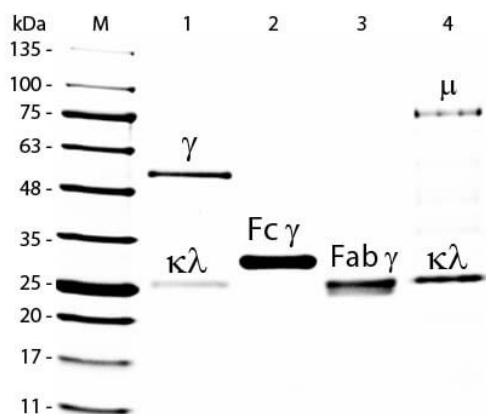
## Formulation

|                               |                                                                        |
|-------------------------------|------------------------------------------------------------------------|
| <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> | 1.0 mL                                                                 |
| <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.                                                                                                                                                                                                                                                                                           |

## Images



#### SDS-PAGE

SDS-PAGE of Goat IgG Whole Molecule Rhodamine Conjugated (p/n 005-0002). Lane M: 5  $\mu$ L Opal Prestained Marker (p/n MB-210-0500). Lane 1: Reduced Goat IgG Whole Molecule Rhodamine Conjugated (p/n 005-0002). Lane 2: Reduced Goat IgG F(c) Fragment (p/n 005-0103). Lane 3: Reduced Goat IgG F(ab) Fragment (p/n 005-0105). Lane 4: Reduced Goat IgM Whole Molecule (p/n 005-0107). Load: 1  $\mu$ g for IgG, F(c) and F(ab); 3  $\mu$ g for IgM. Predicted/Observed size: IgG at 50 and 25 kDa; F(c) at 25 kDa; F(ab) at 25 kDa; IgM at 70 and 23 kDa. Observed F(c) Fragment migrates slightly higher.

## Disclaimer

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