

## Datasheet for 012-0304

**Rat IgG F(ab')<sub>2</sub> Peroxidase****Overview**

|                     |                                                                       |
|---------------------|-----------------------------------------------------------------------|
| <b>Description:</b> | Rat IgG F(ab') <sub>2</sub> Fragment Peroxidase Conjugated - 012-0304 |
| <b>Item No.:</b>    | 012-0304                                                              |
| <b>Size:</b>        | 1 mg                                                                  |
| <b>Origin:</b>      | Rat                                                                   |

**Product Details**

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>        | Rat IgG F(ab') <sub>2</sub> Fragment Peroxidase Conjugated is a proteolytic fragment of immunoglobulin G (IgG) obtained by limited digestion with the enzyme pepsin under controlled conditions of temperature, time and pH. Rat IgG F(ab') <sub>2</sub> molecules lack the Fc portion of Rat IgG and therefore receptors that bind Rat IgG Fc will not bind Rat IgG F(ab') <sub>2</sub> molecules. This product possesses the F(ab') <sub>2</sub> fragment, recognized by the two F(ab) fragments yielded from the digestion of the antibody below the disulfide bond hinge region followed by Peroxidase conjugation. |
| <b>Synonyms:</b>          | Rat IgG F(ab') <sub>2</sub> fragment peroxidase conjugation, Rat IgG F(ab') <sub>2</sub> fragment HRP conjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species of Origin:</b> | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Conjugate:</b>         | Peroxidase (HRP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Format:</b>            | IgG F(ab') <sub>2</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Type:</b>              | Native Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

**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 pepsin digestion and extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti- Rat IgG, anti-Rat IgG F(ab') <sub>2</sub> and anti-Rat Serum. No reaction was observed against anti-Rat IgG F(c) or anti-Pepsin. |
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**Application Details**

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| <b>Application Note:</b> | Rat IgG F(ab') <sub>2</sub> Fragment Peroxidase Conjugated reagents are ideal for ELISA, western blotting, |
|--------------------------|------------------------------------------------------------------------------------------------------------|

Immunohistochemistry, as well as other antibody detection methods.

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| <b>Assay Dilutions:</b> | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
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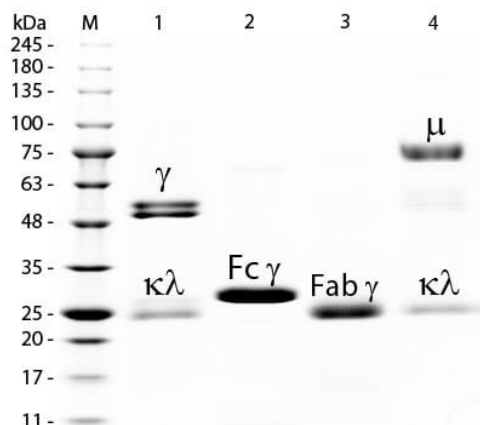
## Formulation

|                               |                                                                        |
|-------------------------------|------------------------------------------------------------------------|
| <b>Physical State:</b>        | Lyophilized                                                            |
| <b>Concentration:</b>         | 1.0 mg/mL by UV absorbance at 280 nm                                   |
| <b>Buffer:</b>                | 0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2                |
| <b>Preservative:</b>          | 0.01% (w/v) Thimerosal                                                 |
| <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 Rat IgG F(c) Fragment Rhodamine Conjugated (p/n 012-0003). Lane M: 3  $\mu$ L Opal Prestained Marker (p/n MB-210-0500). Lane 1: Reduced Rat IgG Whole Molecule (p/n 012-0102). Lane 2: Reduced Rat IgG F(c) Fragment Rhodamine Conjugated (p/n 012-0003). Lane 3: Reduced Rat IgG Fab Fragment (p/n 012-0105). Lane 4: Reduced Rat IgM Whole Molecule (p/n 012-0107). Load: 1  $\mu$ g of IgG, F(c), Fab; 1.5  $\mu$ g of IgM. Predicted/Observed size: IgG at 55 and 25 kDa; F(c) at 25 kDa; Fab at 25 kDa; IgM at 78 and 25 kDa. Observed F(c) Fragment migrates slightly higher.

## Disclaimer

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