

## Datasheet for 004-0204

**Dog IgG F(ab')<sub>2</sub> Fluorescein****Overview**

|                     |                                                                        |
|---------------------|------------------------------------------------------------------------|
| <b>Description:</b> | Dog IgG F(ab') <sub>2</sub> Fragment Fluorescein Conjugated - 004-0204 |
| <b>Item No.:</b>    | 004-0204                                                               |
| <b>Size:</b>        | 1 mg                                                                   |
| <b>Origin:</b>      | Dog                                                                    |

**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') <sub>2</sub> fragment, recognized by the two F(ab) fragments yielded from the digestion of the antibody below the disulfide bond hinge region. |
| <b>Synonyms:</b>          | Dog IgG F(ab') <sub>2</sub> fragment fluorescein conjugated, Dog IgG Fab2 fragment FITC conjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species of Origin:</b> | Dog                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Conjugate:</b>         | Fluorescein (FITC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Format:</b>            | IgG F(ab') <sub>2</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Type:</b>              | Native Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>F/P Ratio:</b>         | 2.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

**Target Details**

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

**Application Note:** Dog IgG F(ab')<sub>2</sub> fragment fluorescein conjugated 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.

**Assay Dilutions:** 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>                | 0.01 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

|                            |                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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.                                                                                                                                                                                                                                                                                           |

## Disclaimer

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