

**RAT IgG Fab fragment Fluorescein conjugated - 012-0205**
**Code:** 012-0205

**Size:** 1 mg

**Product Description:** RAT IgG Fab fragment Fluorescein conjugated - 012-0205

**Concentration:** 1.0 mg/mL by UV absorbance at 280 nm

**PhysicalState:** Lyophilized

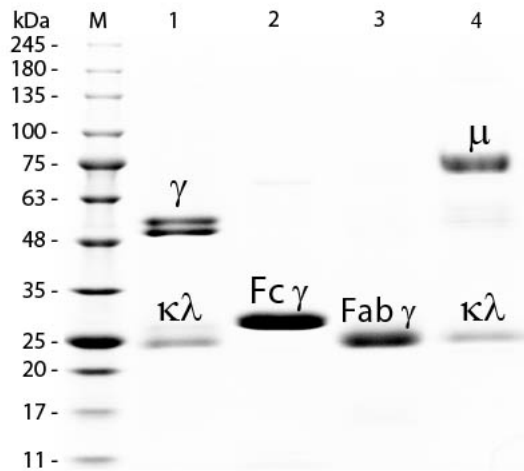
|                               |   |
|-------------------------------|---|
| <b>Label</b>                  | Fluorescein (FITC)  |
| <b>Emission Wavelength</b>    | 528   |
| <b>Excitation Wavelength</b>  | 495   |
| <b>Buffer</b>                 | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2  |
| <b>Reconstitution Volume</b>  | 1.0 mL  |
| <b>Reconstitution Buffer</b>  | Restore with deionized water (or equivalent)  |
| <b>Stabilizer</b>             | 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free  |
| <b>Preservative</b>           | 0.01% (w/v) Sodium Azide  |
| <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>Synonyms</b>               | Rat IgG Fab fragment fluorescein conjugation, Rat IgG Fab fragment FITC conjugated  |
| <b>Application Note</b>       | RAT IgG Fab 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.  |
| <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 compliment cascade, and opsinization 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>Purity And Specificity</b> | This product was prepared from normal serum by delipidation, salt fractionation and ion change chromatography followed by papain digestion and extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Fluorescein, 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-Papain.   |
| <b>Assay Dilutions</b>        | User Optimized  |
| <b>Other Assays</b>           | User Optimized  |
| <b>Expiration</b>             | Expiration date is one (1) year from date of opening.   |

**Related Products**

|          |   |
|----------|---|
| 010-0102 | MOUSE IgG whole molecule - 010-0102   |
| 610-4302 | Anti-MOUSE IgG (H&L) (RABBIT) Antibody Peroxidase Conjugated - 610-4302       |
| 611-1302 | Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302        |
| BSA-50   | BOVINE SERUM ALBUMIN - Fraction V (Immunoglobulin and Protease Free) - BSA-50 |

**Images**

SDS-PAGE of Rat IgG Fab Fragment Fluorescein Conjugated (p/n 012-0205). 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 (p/n 012-0103). Lane 3: Reduced Rat IgG Fab Fragment Fluorescein Conjugated (p/n 012-0205). 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

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.