

RAT IgG F(c) fragment - 012-0103
Code: 012-0103

Size: 1 mg

Product Description: RAT IgG F(c) fragment - 012-0103

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

PhysicalState: Liquid (sterile filtered)

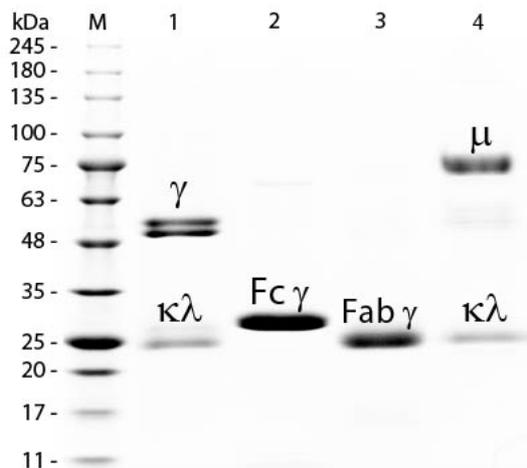
Label	Unconjugated
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative	0.01% (w/v) Sodium Azide
Storage Condition	Store vial at 4° C prior to opening. Stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing.
Synonyms	Rat Immunoglobulin G F(c) fragment, IgG Fc
Application Note	Rat IgG F(c) Fragment can be utilized as a control or standard reagent in Western Blotting and ELISA experiments. Rat IgG F(c) Fragment is stable at 4° C prior to restoration. It is recommended to aliquot restored Rat IgG F(c) Fragment and store at -20° C for extended storage and to prevent repeated freeze-thaw cycles.
Background	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. The F(c) fragment binds with very high affinity to the Fc receptor proteins on phagocytic leukocytes. When digested from the whole antibody molecule, the F(c) fragment no longer posses the epitope recognition site.
Purity And Specificity	Rat IgG F(c) fragment was prepared from normal serum by a multi-step process which includes delipidation, salt fractionation, ion exchange chromatography and papain digestion followed by chromatographic separation and extensive dialysis against the buffer stated above. Rat IgG F(c) fragment was assayed by immunoelectrophoresis resulted in a single precipitin arc against anti-Rat Serum, anti-Rat IgG and anti-Rat IgG F(c). No reaction was observed against anti-Rat IgG F(ab') ₂ or anti-Papain.
Assay Dilutions	User Optimized
ELISA	User Optimized
Western Blot	User Optimized
Immunohistochemistry	User Optimized
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.

Related Products

001-0103	BOVINE IgG F(c) fragment - 001-0103
008-0303	HORSE IgG F(c) fragment Peroxidase conjugated - 008-0303
612-1003	Anti-RAT IgG F(c) (GOAT) Antibody Rhodamine Conjugated - 612-1003
MB-070	Blocking Buffer for Fluorescent Western Blotting - MB-070

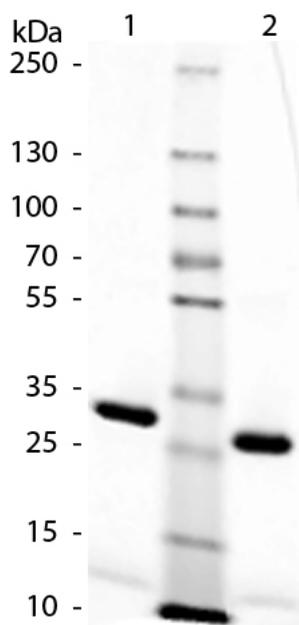
Images

1	SDS-PAGE of Rat IgG F(c) Fragment (p/n 012-0103). Lane M: 3 µL 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 (p/n 012-0105). Lane 4: Reduced Rat IgM Whole Molecule (p/n 012-0107). Load: 1 µg of IgG, F(c) and Fab; 1.5 µg 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.
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SDS-Page of Rat IgG F(c). Lane 1: Rat Fc – Non-reduced. Lane 2: Rat Fc - Reduced. Load: 1.0 µg per lane. Predicted/Observed size: 25 kDa, 25 kDa for Reduced Fc. Other band(s): None.



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.