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Datasheet for 011-0103

Rabbit IgG Fc fragment

Overview

Description:	Rabbit IgG Fc Fragment - 011-0103
Item No.:	011-0103
Size:	1 mg
Applications:	SDS-PAGE, Other
Origin:	Rabbit

Product Details

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 opsonization 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 possesses the epitope recognition site. Rabbit IgG F(c) fragment is ideal for investigators in Immunology, Cancer, and Microbiology research.
Synonyms:	Rabbit immunoglobulin Gamma F(c), IgG Fc
Species of Origin:	Rabbit
Format:	IgG Fc
Type:	Native Protein

Target Details

Purity/Specificity:	Rabbit 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. Rabbit IgG F(c) fragment assayed by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum, anti-Rabbit IgG and anti-Rabbit IgG F(c). No reaction was observed against anti-Rabbit IgG F(ab')2 or anti-Papain.

Relevant Links:	• 011-0103 SDS

Application Details

Tested Applications:	SDS-PAGE
Suggested Applications:	Other (Based on references)
Application Note:	Rabbit IgG F(c) Fragment has been tested in SDS-Page and can be utilized as a control or standard reagent in Western Blotting and ELISA experiments.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized
IHC:	User Optimized
WB:	User Optimized

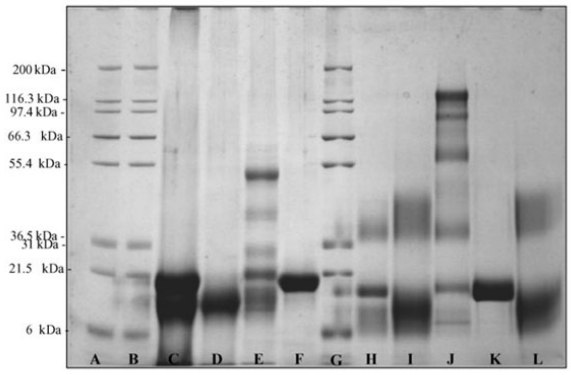
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

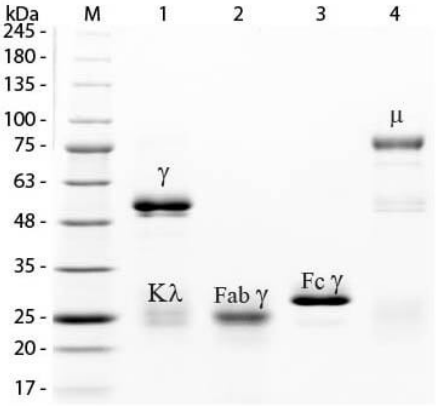
Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. 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. Rabbit IgG F(c) fragment is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



SDS-PAGE
SDS PAGE gel of commercially-purified rabbit Immunoglobulin G (rIgG) and of rIgG papain digestion products Fab and Fc.
Lanes A, B and G contain gel markers.
Lanes C–F contain products which have been reduced with b-mercaptoethanol.
Lanes H–L contain non-reduced products.
Each lane contains approximately 35 mg of the following products:
Lanes C and H contain papain digested products;
Lanes D, I and L contain Fc fragment obtained from protein A purification;
Lanes E and J contain whole rIgG;
Lanes F and K contain Fab fragment obtained from protein A purification;
Whole rIgG (p/n 011-0102), rFc (p/n 011-0103), rFab (p/n 011-0105), rF(ab')2 (p/n 011-0104). Fig. 3. PMID: 12643976.



SDS-PAGE
SDS-PAGE of Rabbit IgG Whole Molecule Rhodamine Conjugated (p/n 011-0002). Lane M: 3 µL Opal Prestained Marker (p/n MB-210-0500). Lane 1: Reduced Rabbit IgG Whole Molecule Rhodamine Conjugated (p/n 011-0002). Lane 2: Reduced Rabbit IgG F(ab) Fragment (p/n 011-0105). Lane 3: Reduced Rabbit IgG F(c) Fragment (p/n 011-0103). Lane 4: Reduced Rabbit IgM Whole Molecule (p/n 011-0107). Load: 1 µg for F(ab) and F(c); 1.2 µg for IgG and 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.

References

- Cramer P et al. A viral glycoprotein targets IgG+ memory B cells to mediate humoral immune evasion. *EMBO Mol Med.* (2026)
- Moore RW et al. Effect of bursal anti-steroidogenic peptide and immunoglobulin G on neonatal chicken B-lymphocyte proliferation. *Comp Biochem Physiol C Toxicol Pharmacol.* (2003)

Disclaimer

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