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www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 005-0103-0001

Goat IgG Fc

Overview

Description:	Goat IgG Fc Fragment - 005-0103-0001
Item No.:	005-0103-0001
Size:	1 mg
Applications:	SDS-PAGE, WB
Origin:	Goat

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. This product possesses the F(c) region, recognized by high-affinity Fc receptor proteins.
Synonyms:	Goat IgG F(c) fragment, Goat IgG Fc fragment
Species of Origin:	Goat
Format:	IgG Fc
Type:	Native Protein

Target Details

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

Application Details

Tested Applications:	SDS-PAGE
Suggested Applications:	WB (Based on references)

Application Note:	Goat IgG F(c) 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.

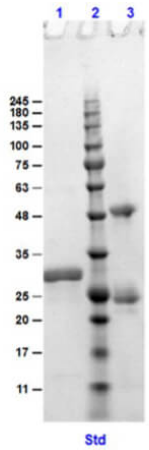
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.1 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

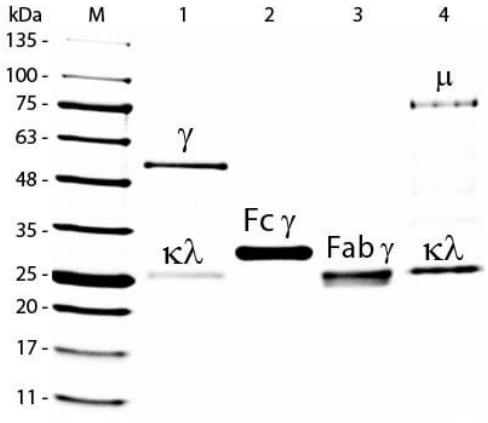
Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. This product is stable 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage mix with an equal volume of glycerol, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



SDS-PAGE
SDS PAGE Results of Goat IgG F(c) Fragment. Lane 1: Goat IgG F(c) Reduced [1.0µg]. Lane 2: Opal Prestained Molecular Weight Marker (p/n MB-210-0500). Lane 3: Goat IgG F(c) Non-Reduced [1.0µg]. 4-20% Gel, Coomassie Stained.



SDS-PAGE
SDS-PAGE of Goat IgG Whole Molecule Rhodamine Conjugated (p/n 005-0002). Lane M: 5 µL Opal Prestained Marker (p/n MB-210-0500). Lane 1: Reduced Goat IgG Whole Molecule Rhodamine Conjugated (p/n 005-0002). Lane 2: Reduced Goat IgG F(c) Fragment (p/n 005-0103). Lane 3: Reduced Goat IgG F(ab) Fragment (p/n 005-0105). Lane 4: Reduced Goat IgM Whole Molecule (p/n 005-0107). Load: 1 µg for IgG, F(c) and F(ab); 3 µg for 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

- Janiszewska N et al. Protein Orientation and Polymer Phase Separation Induced by Poly(methyl methacrylate) Tacticity. *Langmuir.* (2025)

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