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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet for 003-0104

Chicken IgG F(ab')₂**Overview**

Description:	Chicken IgG F(ab') ₂ Fragment (BULK ORDER) - 003-0104
Item No.:	003-0104
Size:	10 mg
Applications:	SDS-PAGE, Cellular Assay, FC, Functional Assay
Origin:	Chicken

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 complement cascade, and opsonization for phagocytosis. This product possesses the F(ab') ₂ fragment, recognized by the two F(ab) fragments yielded from the digestion of the antibody below the disulfide bond hinge region.
Synonyms:	Chicken IgG F(ab') ₂ fragment, Chicken IgG Fab ₂ fragment, Chicken IgY F(ab') ₂ fragment, Chicken IgY Fab ₂ fragment
Species of Origin:	Chicken
Format:	IgG F(ab') ₂
Type:	Native Protein

Target Details

Purity/Specificity:	This product was prepared from normal serum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by pepsin digestion and extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Chicken IgG, anti-Chicken IgG F(ab') ₂ and anti-Chicken Serum. No reaction was observed against anti-Chicken IgG F(c) or anti-Pepsin.
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Application Details

Tested Applications:	SDS-PAGE
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Suggested Applications:	Cellular Assay, FC, Functional Assay (Based on references)
Application Note:	Chicken IgG F(ab') ₂ fragment has been tested by 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.

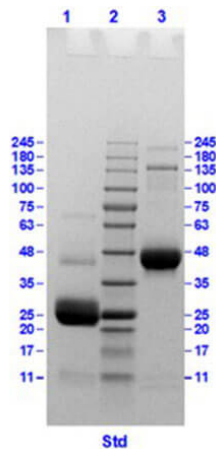
Formulation

Physical State:	Lyophilized
Concentration:	10.0 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
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images

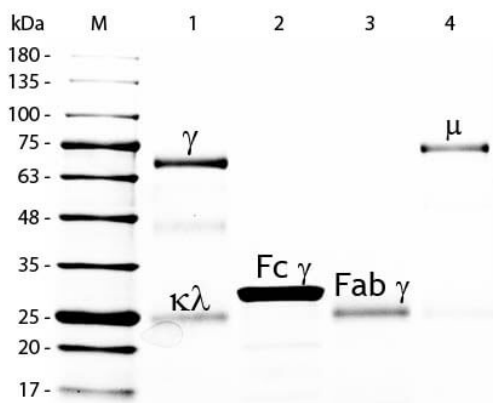

SDS-PAGE

SDS-PAGE Results of Chicken IgG F(ab)'2.

Lane 1: Chicken IgG F(ab)'2 fragment - Reduced [5µg].

Lane 2: Opal Prestained Molecular Weight Marker (p/n MB-210-0500).

Lane 3: Chicken IgG F(ab)'2 fragment - Non-Reduced [5µg].
 4-20% Gel. Coomassie stained.


SDS-PAGE

SDS-PAGE of Chicken IgG/IgY Whole Molecule Rhodamine

Conjugated (p/n 003-0002). Lane M: 5 µL Opal Prestained

Marker (p/n MB-210-0500). Lane 1: Reduced Chicken IgG

Whole Molecule Rhodamine Conjugated (p/n 003-0002).

Lane 2: Reduced Chicken IgG F(c) Fragment (p/n 003-0103).

Lane 3: Reduced Chicken IgG Fab Fragment (p/n 003-0105).

Lane 4: Reduced Chicken IgM Whole Molecule (p/n 003-

0107). Load: 1 µg per lane. Predicted/Observed size: IgG at

72 and 25 kDa; F(c) at 25 kDa; Fab at 25 kDa; IgM at 75 kDa.

Observed F(c) Fragment migrates slightly higher. Other

bands: Chicken IgG heavy chain alternative splicing variant at

approximately 40 kDa in Lane 1.

References

- Taylor AI. et al. Avian IgY binds to a monocyte receptor with IgG-like kinetics despite an IgE-like structure. *J Biol Chem.* (2008)
- 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

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.