



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Datasheet for 003-0107

## Chicken IgM

### Overview

<b>Description:</b>	Chicken IgM Whole Molecule - 003-0107
<b>Item No.:</b>	003-0107
<b>Size:</b>	1 mg
<b>Applications:</b>	SDS-PAGE, ELISA
<b>Origin:</b>	Chicken

### Product Details

<b>Background:</b>	Immunoglobulin M is the largest antibody isotype and the first to be secreted against an initial exposure to antigen. IgM is predominantly produced in the spleen. Formed from covalently linking 5 immunoglobulins together, the approximate molecular weight of IgM is 900kDa and possesses 10 binding sites (though due to the size of most antigens, not all sites are capable of binding at once). Due to this large size, IgM is typically isolated to the serum.
<b>Synonyms:</b>	Chicken Immunoglobulin M, Fowl IgM
<b>Species of Origin:</b>	Chicken
<b>Format:</b>	IgM
<b>Type:</b>	Native Protein

### Target Details

<b>Purity/Specificity:</b>	Chicken IgM whole molecule was prepared from normal serum by a multi-step process which includes delipidation, selective precipitation and tandem molecular sieve chromatography followed by extensive dialysis against the buffer stated above. Chicken IgM whole molecule assayed by immunoelectrophoresis resulted in a single precipitin arc against anti-Chicken Serum and anti-Chicken IgM ( $\mu$ chain specific). No reaction was observed against anti-Chicken IgG F (c). Some light chain cross reactivity will occur with anti-Chicken IgG. Analysis by SDS-PAGE was used to show purity at greater than 95%. Some high molecular weight banding may be visible. A minor band at ~50 kDa may also be visible.
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### Application Details

<b>Tested Applications:</b>	SDS-PAGE
<b>Suggested Applications:</b>	ELISA (Based on references)
<b>Application Note:</b>	Chicken IgM whole molecule has been tested in SDS-Page and can be utilized as a control or standard reagent in Western Blotting and ELISA experiments.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>ELISA:</b>	User Optimized
<b>IHC:</b>	User Optimized
<b>WB:</b>	User Optimized
<b>Other:</b>	This lot is supplied in PBS/azide buffer

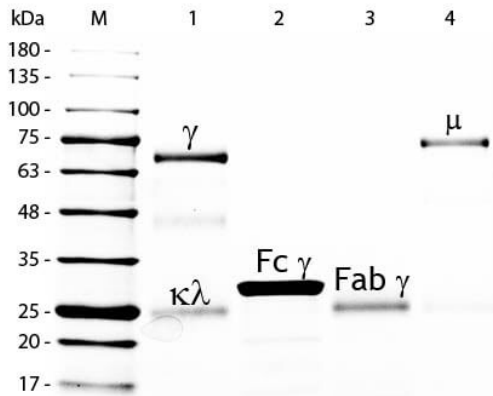
## Formulation

<b>Physical State:</b>	Liquid (sterile filtered)
<b>Concentration:</b>	1.0mg/ml by UV absorbance at 280 nm
<b>Buffer:</b>	0.1 M Tris Chloride, 0.5 M Sodium Chloride, pH 8.0
<b>Preservative:</b>	0.1% (w/v) Sodium Azide

## Shipping & Handling

<b>Shipping Condition:</b>	Wet Ice
<b>Storage Condition:</b>	Chicken IgM whole molecule is stable for several weeks at 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. Centrifuge product if not completely clear after standing at room temperature.
<b>Expiration:</b>	Expiration date is one (1) year from date of receipt.

## Images


**SDS-PAGE**

SDS-PAGE of Chicken IgG/IgY Whole Molecule Rhodamine Conjugated (p/n 003-0002). Lane M: 5  $\mu$ L 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  $\mu$ g 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**

- Ching KH et al. Chickens with humanized immunoglobulin genes generate antibodies with high affinity and broad epitope coverage to conserved targets. *Mabs.* (2018)

**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.