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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Datasheet for 004-0107**Dog IgM****Overview**

| | |
|----------------------|-----------------------------------|
| Description: | Dog IgM Whole Molecule - 004-0107 |
| Item No.: | 004-0107 |
| Size: | 1 mg |
| Applications: | SDS-PAGE, ELISA |
| Origin: | Dog |

Product Details

| | |
|---------------------------|---|
| Background: | 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. |
| Synonyms: | Dog Immunoglobulin M |
| Species of Origin: | Dog |
| Format: | IgM |
| Type: | Native Protein |

Target Details

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|----------------------------|---|
| Purity/Specificity: | Dog 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. Dog IgM whole molecule was assayed by immunoelectrophoresis resulted in a single precipitin arc against anti-Dog Serum and anti-Dog IgM (μ chain specific). No reaction was observed against anti-Dog IgG F(c). Some light chain cross reactivity will occur with anti-Dog IgG. |
|----------------------------|---|

Application Details

| | |
|-----------------------------|----------|
| Tested Applications: | SDS-PAGE |
|-----------------------------|----------|

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|--------------------------------|--|
| Suggested Applications: | ELISA (Based on references) |
| Application Note: | Dog 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. |
| 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 |

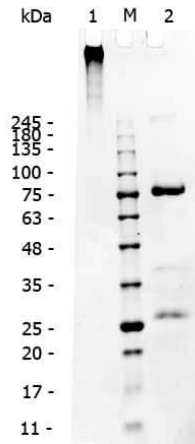
Formulation

| | |
|------------------------|--|
| Physical State: | Liquid (sterile filtered) |
| Concentration: | 0.99 mg/mL by UV absorbance at 280 nm |
| Buffer: | 0.1 M Tris Chloride, 0.5 M Sodium Chloride, pH 8.0 |
| Preservative: | 0.1% (w/v) Sodium Azide |

Shipping & Handling

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|----------------------------|---|
| Shipping Condition: | Wet Ice |
| Storage Condition: | Store vial at 4° C prior to opening. Dog IgM whole molecule 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 of Dog IgM. Lane 1: Non-Reduced Human IgG. Lane 2: 5 μ L OPAL Pre-stained Marker MB-210-0500. Lane 3: Reduced Dog IgM. Load: 1 μ g per lane. Predicted/Observed size: Non-reduced 900 kDa, Reduced at 75, 25 kDa.

References

- Lynch TJ et al. Ferret Lung Transplantation Models Differential Lymphoid Aggregate Morphology Between Restrictive and Obstructive Forms of Chronic Lung Allograft Dysfunction. *Transplantation*. (2022)

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.