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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet for 609-1107

Human IgM mu Antibody

Overview

| | |
|----------------------|--|
| Description: | Goat Anti-Human IgM (mu chain) Antibody - 609-1107 |
| Item No.: | 609-1107 |
| Size: | 1 mg |
| Applications: | ELISA, Purification |
| Reactivity: | Human |
| Host Species: | Goat |

Product Details

| | |
|----------------------|---|
| Background: | Anti-Human IgM (mu heavy chain) generated in goat detects specifically Human IgM mu heavy chain. 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. Anti-Human IgM mu chain antibody is ideal for investigators in Immunology, Microbiology, and Cell Biology. |
| Synonyms: | goat anti-Human IgM mu chain Antibody, Gt-a-Human IgM, Human IgM Antibody in Goat, Human Secondary Antibody |
| Host Species: | Goat |
| Specificity: | IgM μ chain |
| Clonality: | Polyclonal |
| Format: | IgG |

Target Details

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|------------------------|--------------------------|
| Reactivity: | Human |
| Immunogen Type: | Native Protein |
| Immunogen: | Human IgM whole molecule |

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|----------------------------|---|
| Purity/Specificity: | Anti-Human IgM mu heavy chain was prepared from monospecific antiserum by immunoaffinity chromatography using Human IgM coupled to agarose beads followed by solid phase adsorption (s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, Human IgM and Human Serum. No reaction was observed against other human heavy or light chain proteins. |
|----------------------------|---|

Application Details

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|--------------------------------|---|
| Tested Applications: | ELISA |
| Suggested Applications: | Purification (Based on references) |
| Application Note: | Anti-Human IgM mu heavy chain has been tested by ELISA and is suitable for use in immunoelectrophoresis, western-blot, competitive western-blot, ELISA and competitive ELISA assays. Specific conditions for reactivity and signal detection should be optimized by the end user. |
| Assay Dilutions: | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| ELISA: | 1:10,000 - 1:50,000 |
| IHC: | 1:1,000 - 1:5,000 |
| WB: | 1:1,000 - 1:5,000 |

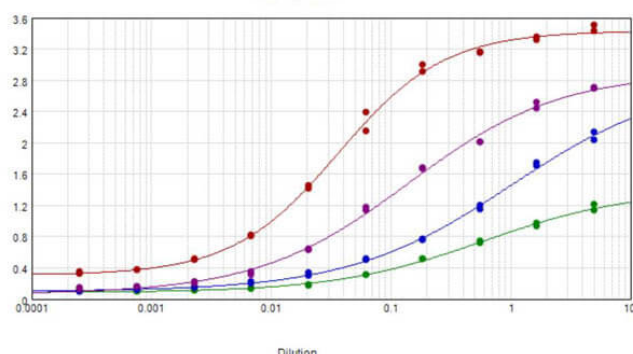
Formulation

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|------------------------|--|
| 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

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|----------------------------|--|
| Shipping Condition: | Wet Ice |
| Storage Condition: | Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage 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



ELISA

ELISA results of purified Goat anti-Human IgM antibody tested against purified human IgM [RED line], human IgG F(ab')₂ [PURPLE line], human IgG Fab [BLUE line], human IgG F(c) [GREEN line]. Each well was coated in duplicate with 1.0 µg of IgM [p/n 009-0107], IgG F(ab')₂ [009-0104], IgG Fab [p/n 009-0105], IgG F(c) [009-0103]. The starting dilution of antibody was 5 µg/ml and the X-axis represents the Log₁₀ of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC₅₀ is defined as the titer of the antibody. Assay performed using Blocking buffer MB-060-1000, Donkey-anti-Goat IgG HRP conjugate (p/n 616-1302) 1:12,000, and TMB-1000 substrate.

References

- Serrano-Coll, H et al. Social and environmental conditions related to Mycobacterium leprae infection in children and adolescents from three leprosy endemic regions of Colombia. *Bmc Infectious Diseases* (2019)
- Yang Q et al. Analysis of pre-existing IgG and IgM antibodies against polyethylene glycol (PEG) in the general population. *Anal Chem.* (2016)
- Campbell CT, Llewellyn SR, Demberg T, Morgan IL, Robert-Guroff M, Gildersleeve JC. High-throughput profiling of anti-glycan humoral responses to SIV vaccination and challenge. *PLoS One.* (2013)

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.