

**Datasheet for 213-4307****Sheep IgM (mu) Antibody Peroxidase Conjugated****Overview**

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| <b>Description:</b>  | Rabbit Anti-Sheep IgM (mu) Antibody Peroxidase Conjugated - 213-4307 |
| <b>Item No.:</b>     | 213-4307                                                             |
| <b>Size:</b>         | 20 mg                                                                |
| <b>Reactivity:</b>   | Sheep                                                                |
| <b>Host Species:</b> | Rabbit                                                               |

**Product Details**

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| <b>Background:</b>   | Anti-Sheep IgM antibody generated in rabbit specifically detects Sheep 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, 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. Anti-Sheep IgM antibody is ideal for investigators in Immunology, Microbiology, and Cell Biology. This Anti-Sheep IgM is conjugated to Peroxidase. |
| <b>Synonyms:</b>     | rabbit anti-Sheep IgM (mu chain) Antibody Peroxidase Conjugated, rabbit anti-Sheep IgM mu chain HRP Conjugated Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Specificity:</b>  | IgM $\mu$ chain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Conjugate:</b>    | Peroxidase (HRP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

**Target Details**

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| <b>Reactivity:</b> | Sheep                    |
| <b>Immunogen:</b>  | Sheep IgM mu heavy chain |

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| <b>Purity/Specificity:</b> | This product is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by cross adsorption and extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Rabbit Serum, Sheep IgM and Sheep Serum. No reaction was observed against Sheep IgG. |
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## Application Details

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| <b>Application Note:</b> | This product has been assayed against 1.0 ug of Sheep IgM in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenzthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:1,000 to 1:3,000 of the reconstitution concentration is suggested for this product. |
| <b>Assay Dilutions:</b>  | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                                          |
| <b>ELISA:</b>            | 1:10,000 - 1:50,000                                                                                                                                                                                                                                                                                                                      |
| <b>IHC:</b>              | 1:500 - 1:2,500                                                                                                                                                                                                                                                                                                                          |
| <b>WB:</b>               | 1:1,000 - 1:10,000                                                                                                                                                                                                                                                                                                                       |

## Formulation

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| <b>Physical State:</b>        | Lyophilized                                                            |
| <b>Concentration:</b>         | 10.0 mg/mL by UV absorbance at 280 nm                                  |
| <b>Buffer:</b>                | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2             |
| <b>Preservative:</b>          | 0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!               |
| <b>Stabilizer:</b>            | 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free |
| <b>Reconstitution Volume:</b> | 2.0 mL                                                                 |
| <b>Reconstitution Buffer:</b> | Restore with deionized water (or equivalent)                           |

## Shipping & Handling

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| <b>Shipping Condition:</b> | Ambient                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage Condition:</b>  | 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. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                                                                                                                           |

## 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.