

## Datasheet for 009-026-007

**Human IgM APC****Overview**

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| <b>Description:</b> | Human IgM Whole Molecule Allophycocyanin Conjugated - 009-026-007 |
| <b>Item No.:</b>    | 009-026-007                                                       |
| <b>Size:</b>        | 0.25 mL                                                           |
| <b>Origin:</b>      | Human                                                             |

**Product Details**

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <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>          | HUMAN IgM APC conjugated, HUMAN IgM allophycocyanin conjugation, isotype control for flow cytometry                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species of Origin:</b> | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Conjugate:</b>         | Allophycocyanine (APC)                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Format:</b>            | IgM                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Type:</b>              | Native Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>F/P Ratio:</b>         | 1-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**Target Details**

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| <b>Purity/Specificity:</b> | Human IgM whole molecule Allophycocyanin conjugated was prepared from normal serum delipidation, salt fractionation, ion exchange chromatography followed by extensive dialysis against the buffer stated above. Human IgM whole molecule Allophycocyanin conjugated was assayed by immunoelectrophoresis resulted in a single precipitin arc against anti-Allophycocyanin, anti-Human IgM and anti-Human Serum. No reaction was observed against anti-Human IgG F(c). |
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## Application Details

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| <b>Application Note:</b> | Human IgM whole molecule Allophycocyanin conjugated can be utilized as a control reagent in Flow Cytometry, Immunohistochemistry, and Western Blotting. Researchers should determine optimal titers for applications that are not stated. |
| <b>Assay Dilutions:</b>  | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                           |
| <b>FC:</b>               | User Optimized                                                                                                                                                                                                                            |
| <b>IHC:</b>              | User Optimized                                                                                                                                                                                                                            |
| <b>WB:</b>               | User Optimized                                                                                                                                                                                                                            |

## Formulation

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|------------------------|------------------------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                                              |
| <b>Concentration:</b>  | 1.0 mg/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                                                |
| <b>Stabilizer:</b>     | 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                                               |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Wet Ice                                                                                                                                                                                                                                                                       |
| <b>Storage Condition:</b>  | Store vial at 4° C prior to opening. Dilute only prior to immediate use. This product is stable 4° C as an undiluted liquid. 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. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                                                         |

## Disclaimer

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