

**Datasheet for 002-0107****Cat IgM****Overview**

|                      |                                   |
|----------------------|-----------------------------------|
| <b>Description:</b>  | Cat IgM Whole Molecule - 002-0107 |
| <b>Item No.:</b>     | 002-0107                          |
| <b>Size:</b>         | 1 mg                              |
| <b>Applications:</b> | SDS-PAGE                          |
| <b>Origin:</b>       | Feline                            |

**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>          | Cat Immunoglobulin M                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species of Origin:</b> | Feline                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Format:</b>            | IgM                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Type:</b>              | Native Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

**Target Details**

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Purity/Specificity:</b> | Cat 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. Cat IgM whole molecule was assayed by immunoelectrophoresis resulted in a single precipitin arc against anti-Cat Serum and anti-Cat IgM ( $\mu$ chain specific). No reaction was observed against anti-Cat IgG F(c). Some light chain cross reactivity will occur with anti-Cat IgG. |
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**Application Details**

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| <b>Tested Applications:</b> | SDS-PAGE |
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| <b>Application Note:</b> | Cat 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                                                                                                                                     |

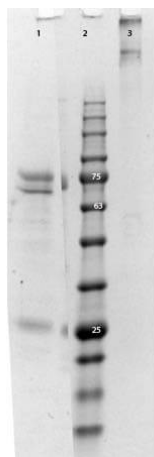
## Formulation

|                        |                                                    |
|------------------------|----------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                          |
| <b>Concentration:</b>  | 1.1 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                            |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                                                         |
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| <b>Shipping Condition:</b> | Wet Ice                                                                                                                                                                                                                                                                                 |
| <b>Storage Condition:</b>  | Store vial at 4° C prior to opening. Cat 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. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                                                                   |

## Images

**SDS-PAGE**

SDS-PAGE of CAT IgM. Lane 1: 1X Reduced Cat IgM. Lane 2: Opal Pre-stained Standard MB-210-0500. Lane 3: 1X Non-reduced Cat IgM. 4-20% SDS-PAGE, Coomassie Stained.

**Disclaimer**

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