

BOVINE IgM whole molecule - 001-0107
Code: 001-0107

Size: 1 mg

Product Description: BOVINE IgM whole molecule - 001-0107

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

PhysicalState: Liquid (sterile filtered)

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| Label | Unconjugated |
| Buffer | 0.1 M Tris Chloride, 0.5 M Sodium Chloride, pH 8.0 |
| Preservative | 0.1% (w/v) Sodium Azide |
| Storage Condition | Store vial at 4° C prior to opening. Bovine 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. |
| Synonyms | Cow immunoglobulin M. IgM whole molecule, Bovine IgM |
| Application Note | Bovine IgM whole molecule can be utilized as a control or standard reagent in Western Blotting and ELISA experiments. |
| Background | <p>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.</p> <p>Bovine IgM whole molecule is ideal for investigators in Immunology, Microbiology, and Cell Biology.</p> |
| Purity And Specificity | Bovine 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. Bovine IgM whole molecule assayed by immunoelectrophoresis resulted in a single precipitin arc against anti-Bovine Serum and anti-Bovine IgM (μ chain specific). No reaction was observed against anti-Bovine IgG F(c). Some light chain cross reactivity will occur with anti-Bovine IgG. |
| Assay Dilutions | User Optimized |
| ELISA | User Optimized |
| Western Blot | User Optimized |
| Immunohistochemistry | User Optimized |
| Other Assays | User Optimized |
| Expiration | Expiration date is one (1) year from date of opening. |
| General Reference | Janeway, Jr., Travers, Walport, and Shlomchik. "The Immune System in Health and Disease." Immunobiology, 5th Edition: Garland Science: 2001. Montella, Maglione, and Giardino et al. (2012). "Hyper IgM syndrome presenting as chronic suppurative lung disease." Italian Journal of Pediatrics. 2012 Sep 19. 38 (1): 45. |

Related Products

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| 005-0107 | GOAT IgM whole molecule - 005-0107 |
| 008-0107 | HORSE IgM whole molecule - 008-0107 |
| 013-0107 | SHEEP IgM whole molecule - 013-0107 |
| 014-0107 | SWINE IgM whole molecule - 014-0107 |

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