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)

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	Immunoglobulin M is the largest antibody isotype and the first to be secrected against an initial exposure to antigen. IgM is predominantly produced in the spleen. Formed from covalently linking 5 immunoglobulins together, the approixmate 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. Bovine IgM whole molecule is ideal for investigators in Immunology, Microbiology, and Cell Biology.
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

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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