

Datasheet for 001-0107**Bovine IgM****Overview**

Description:	Bovine IgM Whole Molecule - 001-0107
Item No.:	001-0107
Size:	1 mg
Applications:	SDS-PAGE
Origin:	Bovine

Product Details

Background:	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. Bovine IgM whole molecule is ideal for investigators in Immunology, Microbiology, and Cell Biology.
Synonyms:	Cow immunoglobulin M. IgM whole molecule, Bovine IgM
Species of Origin:	Bovine
Format:	IgM
Type:	Native Protein

Target Details

Purity/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.
Relevant Links:	011-0107 SDS

Application Details

Tested Applications:	SDS-PAGE
Application Note:	Bovine 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized
IHC:	User Optimized
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.1 M Tris Chloride, 0.5 M Sodium Chloride, pH 8.0
Preservative:	0.1% (w/v) Sodium Azide

Shipping & Handling

Shipping Condition:	Wet Ice
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.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

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