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www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 006-0107

Guinea Pig IgM

Overview

Description:	Guinea Pig IgM Whole Molecule - 006-0107
Item No.:	006-0107
Size:	1 mg
Applications:	SDS-PAGE
Origin:	Guinea Pig

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.
Synonyms:	Guinea Pig immunoglobulin M; GP IgM
Species of Origin:	Guinea Pig
Format:	IgM
Type:	Native Protein

Target Details

Purity/Specificity:	Guinea Pig 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. Guinea Pig Igm whole molecule was assayed by immunoelectrophoresis resulted in a single precipitin arc against anti-Guinea Pig Serum and anti-Guinea Pig IgM (μ chain specific). No reaction was observed against anti-Guinea Pig IgG F(c). Some light chain cross reactivity will occur with anti-Guinea Pig IgG.

Application Details

Tested Applications:	SDS-PAGE

Application Note:	Guinea Pig 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 Opitmized
IHC:	User Optimized
WB:	User Optimized

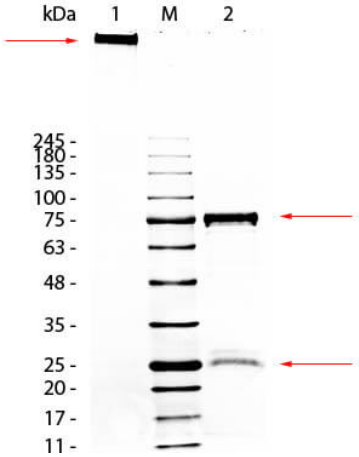
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.88mg/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. Guinea Pig 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.

Images



SDS-PAGE

SDS-Page of Guinea Pig IgM Whole Molecule. Lane 1: Guinea Pig IgM, Non-Reduced. Lane 2: Guinea Pig IgM, Reduced. Load: 1.0 µg per lane. Predicted/Observed size- Predicted/Observed size - Non-Reduced: 900 kDa (Pentamer), 900 kDa (Molecule larger than can pass through gel), Reduced: 78 and 25 kDa, 75 and 25 kDa.

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