

**Datasheet for 012-0307**

## Rat IgM Peroxidase

### Overview

<b>Description:</b>	Rat IgM Whole Molecule Peroxidase Conjugated - 012-0307
<b>Item No.:</b>	012-0307
<b>Size:</b>	500 µg
<b>Origin:</b>	Rat

### Product Details

<b>Background:</b>	Rat IgM Peroxidase conjugated whole molecule - 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. Rat IgM Whole Molecule HRP conjugation is ideal for investigators in Immunology, Microbiology, and Cell Biology.
<b>Synonyms:</b>	Rat IgM Peroxidase conjugate, Rat IgM HRP conjugated
<b>Species of Origin:</b>	Rat
<b>Conjugate:</b>	Peroxidase (HRP)
<b>Format:</b>	IgM
<b>Type:</b>	Native Protein

### Target Details

<b>Purity/Specificity:</b>	This product was prepared from normal serum by delipidation, selective precipitation and tandem molecular sieve chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti- Rat IgM and anti-Rat Serum.
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### Application Details

<b>Application Note:</b>	Rat IgM Peroxidase conjugated whole molecule reagents are ideal for ELISA, western blotting, Immunohistochemistry, as well as other antibody detection methods.
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**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

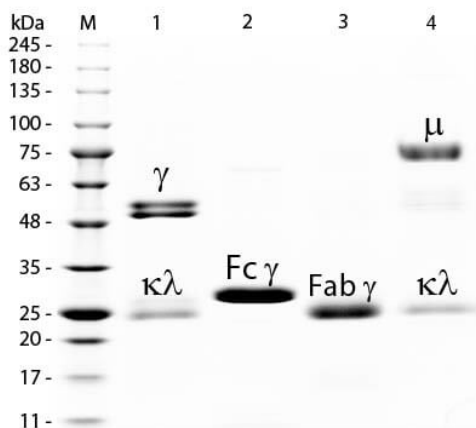
## Formulation

<b>Physical State:</b>	Lyophilized
<b>Concentration:</b>	0.5 mg/mL by UV absorbance at 280 nm
<b>Buffer:</b>	0.04 M Potassium Phosphate, 0.30 M Sodium Chloride, pH 7.2
<b>Preservative:</b>	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
<b>Stabilizer:</b>	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
<b>Reconstitution Volume:</b>	500 $\mu$ L
<b>Reconstitution Buffer:</b>	Restore with deionized water (or equivalent)

## Shipping & Handling

<b>Shipping Condition:</b>	Ambient
<b>Storage Condition:</b>	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
<b>Expiration:</b>	Expiration date is one (1) year from date of receipt.

## Images



### SDS-PAGE

SDS-PAGE of Rat IgG F(c) Fragment Rhodamine Conjugated (p/n 012-0003). Lane M: 3  $\mu$ L Opal Prestained Marker (p/n MB-210-0500). Lane 1: Reduced Rat IgG Whole Molecule (p/n 012-0102). Lane 2: Reduced Rat IgG F(c) Fragment Rhodamine Conjugated (p/n 012-0003). Lane 3: Reduced Rat IgG Fab Fragment (p/n 012-0105). Lane 4: Reduced Rat IgM Whole Molecule (p/n 012-0107). Load: 1  $\mu$ g of IgG, F(c), Fab; 1.5  $\mu$ g of IgM. Predicted/Observed size: IgG at 55 and 25 kDa; F(c) at 25 kDa; Fab at 25 kDa; IgM at 78 and 25 kDa. Observed F(c) Fragment migrates slightly higher.

## Disclaimer

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