

Rat IgM
Catalog # ASR2575

Specification

Rat IgM - Product Information

Description	RAT IgM whole molecule
Conjugate	Unconjugated
Physical State	Liquid (sterile filtered)
Host Isotype	IgM
Buffer	0.1 M Tris Chloride, 0.5 M Sodium Chloride, pH 8.0
Species of Origin	Rat
Preservative	0.1% (w/v) Sodium Azide

Rat IgM - Additional Information

Shipping Condition

Wet Ice

Purity

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

Storage Condition

Store vial at 4° C prior to opening. Rat 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.

Precautions Note

This product is for research use only and is not intended for therapeutic or diagnostic applications.

Rat IgM - Protein Information

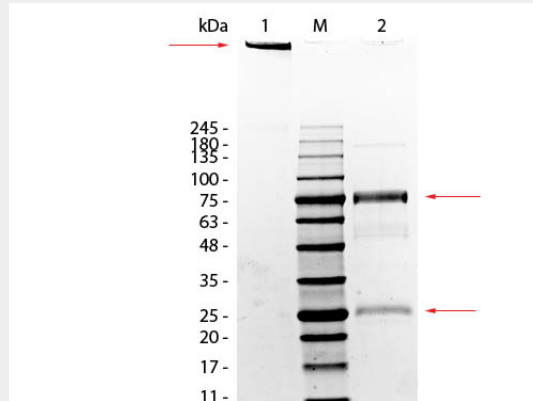
Rat IgM - Protocols

Provided below are standard protocols that you may find useful for product applications.

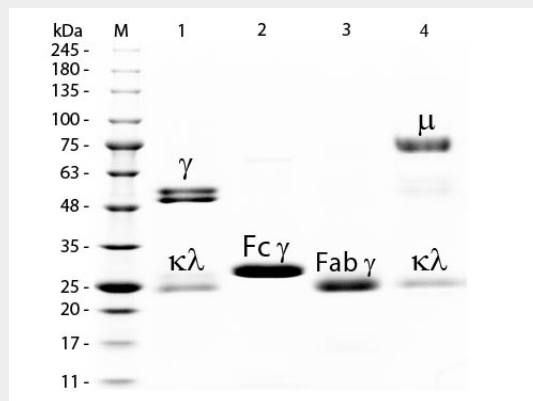
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Rat IgM - Images



SDS-Page of Rat IgM Whole Molecule. Lane 1: Rat IgM, Non-Reduced. Lane 2: Rat IgM, Reduced. Load: 1.0 μ g 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, 78 and 25 kDa.



SDS-PAGE of Rat IgM Whole Molecule . Lane M: 3 μ L Opal Prestained Marker . Lane 1: Reduced Rat IgG Whole Molecule . Lane 2: Reduced Rat IgG F(c) Fragment . Lane 3: Reduced Rat IgG F(ab) Fragment . Lane 4: Reduced Rat IgM Whole Molecule . Load: 1 μ g of IgG, F(c), F(ab); 1.5 μ g of IgM. Predicted/Observed size: IgG at 55 and 25 kDa; F(c) at 25 kDa; F(ab) at 25 kDa; IgM at 78 and 25 kDa. Observed F(c) Fragment migrates slightly higher.

Rat IgM - 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.