10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

MOUSE IgM
Catalog # ASR2567

Specification

MOUSE IgM - Product Information

Description	**MOUSE 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	**Mouse**
Stabilizer	**None**
Preservative	**0.1% (w/v) Sodium Azide**

MOUSE IgM - Additional Information

Shipping Condition
Wet Ice

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

Storage Condition
Store vial at 4° C prior to opening. This product 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.

MOUSE IgM - Protein Information

MOUSE IgM - Protocols

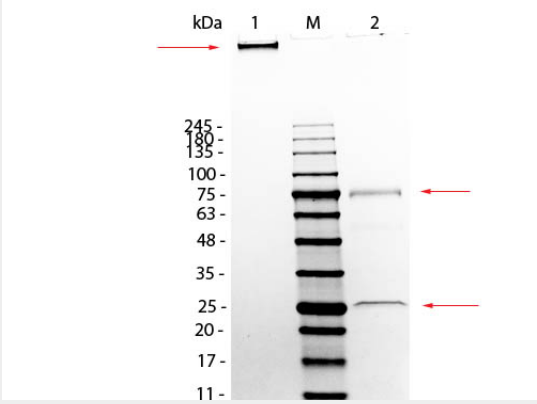
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence

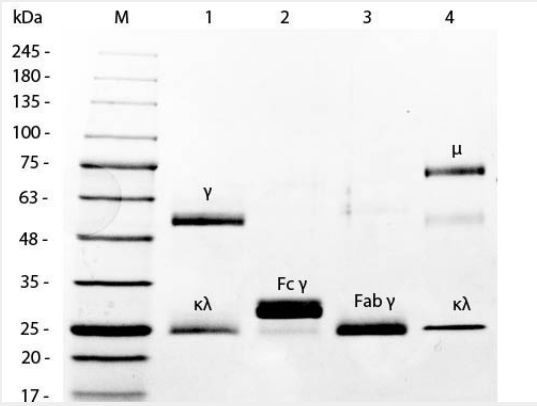
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- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MOUSE IgM - Images



SDS-PAGE of Mouse IgM Whole Molecule. Lane 1: Mouse IgM, Non-Reduced. Lane 2: Mouse IgM, Reduced. Load: 1.0 µg per lane. 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.



SDS-PAGE of Mouse IgM Whole Molecule . Lane 1: 5 µL Opal Prestained Marker . Lane 2: Reduced Mouse IgG Whole Molecule . Lane 3: Reduced Mouse F(c) Fragment . Lane 4: Reduced Mouse F(ab) Fragment . Lane 5: Mouse IgM Whole Molecule . Load: 1 µg per lane. Predicted/Observed size: IgG at 50 and 25 kDa; F(c) at 25 kDa; F(ab') at 25 kDa; IgM at 70 and 23 kDa. Observed F(c) Fragment migrates slightly higher.

MOUSE IgM - Background

Mouse IgM, or mouse Immunoglobulin M, purified protein is a basic antibody that is produced by B cells. Mouse IgM is the primary antibody against A and B antigens on red blood cells. Mouse IgM is by far the physically largest antibody in the human circulatory system. Mouse IgM is the first antibody to appear in response to initial exposure to antigen.