

MOUSE IgM

Catalog # ASR2567

### Specification

# MOUSE IgM - Product Information

Description Conjugate Physical State Host Isotype Buffer

Species of Origin Stabilizer Preservative MOUSE IgM whole molecule Unconjugated Liquid (sterile filtered) IgM 0.1 M Tris Chloride, 0.5 M Sodium Chloride, pH 8.0 Mouse None 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 ( $\mu$  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.

- <u>Western Blot</u>
- Blocking Peptides
- <u>Dot Blot</u>
- Immunohistochemistry
- Immunofluorescence



Immunoprecipitation

- Flow Cytomety
- <u>Cell Culture</u>

**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.

kDa	М	1	2	3	4
245 -					
180 -					
135 -					
100 -					
75 -					μ
63 -		Y	1277	1	
48 -					
35 -		кλ	Fcγ	Fab y	кλ
25 -			Summer of	-	-
20 -					
17.					

SDS-PAGE of Mouse IgM Whole Molecule . Lane 1: 5  $\mu$ L 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  $\mu$ g per Iane. 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.