

Datasheet for ABIN102711

**Rabbit anti-Rat IgM (Heavy Chain) Antibody - Preadsorbed**[Go to Product page](#)**1** Image

## Overview

|                      |  |
|----------------------|--|
| Quantity:            | 2 mg   |
| Target:              | IgM  |
| Binding Specificity: | Heavy Chain  |
| Reactivity:          | Rat  |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Application:         | ELISA, Immunohistochemistry (IHC), Western Blotting (WB) |

## Product Details

|                  |  |
|------------------|--|
| Immunogen:       | Immunogen: Rat IgM whole molecule                    |
| Isotype:         | IgG  |
| Specificity:     | IgM $\mu$ chain                                      |
| Characteristics: | Concentration Definition: by UV absorbance at 280 nm |
| Purification:    | Preadsorption: Solid phase absorption                |
| Sterility:       | Sterile filtered                                     |

## Target Details

|              |                              |
|--------------|------------------------------|
| Target:      | IgM                          |
| Abstract:    | <a href="#">IgM Products</a> |
| Target Type: | Antibody                     |

## Target Details

---

**Background:** Synonyms: Rabbit Anti Rat IgM (mu chain) Antibody, Rabbit Anti-Rat IgM mu chain Antibody  
Background: Anti-Rat IgM antibody generated in rabbit specifically detects rat IgM heavy chain. 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 900 kDa 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. Anti-Rat IgM antibody is ideal for investigators in Immunology, Microbiology, and Cell Biology.

## Application Details

---

**Application Notes:** Immunohistochemistry Dilution: 1:1,000 - 1:5,000  
Application Note: Anti-Rat IgM mu heavy chain antibody is suitable for use in immunoelectrophoresis, western-blot, competitive western-blot, ELISA and competitive ELISA assays. Specific conditions for reactivity and signal detection should be optimized by the end user.  
ELISA Dilution: 1:50,000 - 1:250,000  
Western Blot Dilution: 1:5,000 - 1:25,000

**Restrictions:** For Research Use only

## Handling

---

**Format:** Liquid

**Concentration:** 2.4 mg/mL

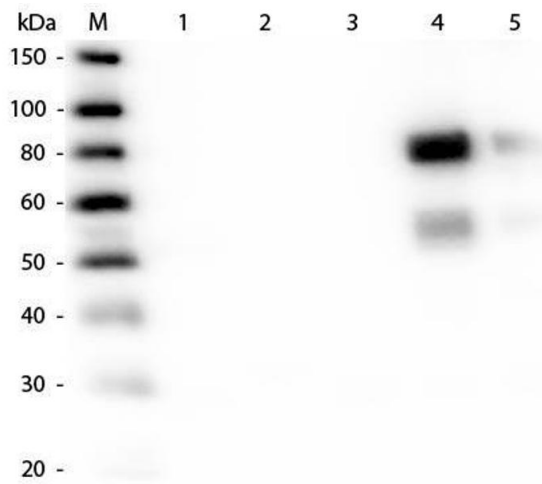
**Buffer:** Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2  
Stabilizer: None  
Preservative: 0.01 % (w/v) Sodium Azide

**Preservative:** Sodium azide

**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

**Storage:** 4 °C,-20 °C

**Expiry Date:** 12 months



### Western Blotting

**Image 1.** Western Blot of Anti-Rat IgM (mu chain) (RABBIT) Antibody . Lane M: 3 µl Molecular Ladder. Lane 1: Rat IgG whole molecule . Lane 2: Rat IgG F(c) Fragment . Lane 3: Rat IgG Fab Fragment . Lane 4: Rat IgM Whole Molecule . Lane 5: Rat Serum . All samples were reduced. Load: 50 ng per lane. Block: ABIN925618 for 30 min at RT. Primary Antibody: Anti-Rat IgM (mu chain) (RABBIT) Antibody 1:2,000 for 60 min at RT. Secondary Antibody: Anti-Rabbit IgG (GOAT) Peroxidase Conjugated Antibody 1:40,000 in ABIN925618 for 30 min at RT. Predicted/Obsevered Size: 25 and 55 kDa for Rat IgG and Serum, 25 kDa for F(c) and Fab, 78 and 25 kDa for IgM. Rat F(c) migrates slightly higher.