

Datasheet for ABIN102709

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

## Overview

Quantity:	2 mL
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 mu heavy chain
Specificity:	IgM $\mu$ chain
Characteristics:	Concentration Definition: by Refractometry
Purification:	This product was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-rabbit serum, Rat IgM and Rat Serum. No reaction was observed against Rat IgG F(ab') <sub>2</sub> or Rat IgG F(c).

## Target Details

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

## Target Details

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Background:	Synonyms: rabbit anti-Rat IgM (mu) Antibody, rabbit anti Rat IgM mu Background: Anti-Rat IgM antibody generated in rabbit specifically detects rat IgM mu 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.
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## Application Details

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Application Notes:	Immunohistochemistry Dilution: 1:1,000 - 1:5,000 Application Note: Anti-Rat IgM antibody is suitable for use in ELISA, immunohistochemistry, and western blot. Specific conditions for reactivity should be optimized by the end user. ELISA Dilution: 1:20,000 - 1:100,000 Western Blot Dilution: 1:2,000 - 1:10,000
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Restrictions:	For Research Use only
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## Handling

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Format:	Lyophilized
Reconstitution:	Reconstitution Volume: 2.0 mL Reconstitution Buffer: Restore with deionized water (or equivalent)
Concentration:	90 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:	RT, 4 °C, -20 °C
Expiry Date:	12 months

## Publications

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Product cited in: Regal, Strehlke, Peterson, Wing, Parker, Nieto, Bemis, Gilbert, Fleming: "Role of IgM and angiotensin II Type I receptor autoantibodies in local complement activation in placental ischemia-induced hypertension in the rat." in: **Molecular immunology**, Vol. 78, pp. 38-47, (2017) ([PubMed](#)).