

## Goat IgG anti-Rat IgM ( $\mu$ )-Alk. Phos., MinX none

### General Information

<b>Catalog Number:</b> SEC-183470	<b>Physical State:</b> Liquid (sterile filtered)
<b>Quantity:</b> 1 mg	<b>Reconstitution Volume:</b>
	<b>Reconstitution Buffer:</b>
	<b>Shipping Conditions:</b> Wet Ice
	<b>Product Expiration:</b> Expiration date is one (1) year from date of opening.

### Antibody Host / Format

<b>Host Species:</b> Goat	<b>Clonality / Isotype / Clone:</b> polyclonal Ig
<b>Antibody Format:</b> IgG whole molecule	<b>Concentration:</b> 1.0 mg/mL by UV absorbance at 280 nm
	<b>Conjugation:</b> Alkaline Phosphatase
	<b>Maximum Excitation / Emission:</b> /

### Specificity

<b>Target Species:</b> Rat	<b>Immunogen:</b> Rat IgM whole molecule
<b>Antibody Specificity:</b> IgM ( $\mu$ -Chain/ Fc Fragment)	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Rat IgM coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Alkaline Phosphatase (calf intestine), anti-Goat Serum, Rat IgM and Rat Serum. No reaction was observed against other rat heavy or light chain proteins.
	<b>Minimal Cross Reactivity:</b> none

### Formulation, Transport and Storage

<b>Storage Buffer:</b> 0.05 M Tris Chloride, 0.15M Sodium Chloride, 0.001M Magnesium Chloride, 0.0001M Zinc Chloride, 50% (v/v) Glycerol; pH 8.0	<b>Preservatives:</b> 0.01% (w/v) Sodium Azide
<b>Stabilizer:</b> 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free	Store vial at 4° C before opening. DO NOT FREEZE. This product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. Freezing alkaline phosphatase conjugates will result in a substantial loss of enzymatic activity.
	<b>Storage Temperature:</b> 4-8°C

### Application Recommendation

This product is for In Vitro experimental use only. Not for Therapeutic or Diagnostic use.

#### Manufacturer

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**Application:** ELISA, Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections), Immunohistochemistry (frozen sections), Western Blot

**Dilution:** ELISA 1:10.000 - 1:30.000, Immunohistochemistry (IHC) 1:200 - 1:1,000, Western Blot (WB) 1:500 - 1:2.500

**Application Note:**

This product has been assayed against 1.0 ug of Rat IgM in a standard capture ELISA using pNPP p-nitrophenyl phosphate code # NPP-10 as a substrate for 30 minutes at room temperature. A working dilution of 1:500 to 1:2,000 is suggested for this product.

**Background Information**

Anti-Rat IgM antibody generated in goat 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 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. Anti-Rat IgM antibody is ideal for investigators in Immunology, Microbiology, and Cell Biology. This Rat IgM is conjugated to Alkaline phosphatase.

**Safety Information**

This reagent contains sodium azide (a poisonous and hazardous substance) as preservative. Although this concentration is not regarded as dangerous to health, appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. Standard Laboratory Practices should be followed when handling this material.

**Disclaimer**

This product is warranted to perform in conformance with product specifications and to be free from defects in material and workmanship. Products are supplied for research use only. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated, this warranty is limited to one year from date of shipment when the product is subjected to normal, proper and intended usage. Buyer's exclusive remedy for non-conforming products during the warranty period is limited to replacement of or refund for the non-conforming product(s). There is no obligation to replace products as the result of accident or disaster or inappropriate use of the products in a manner for which they were not designed, or improper storage and handling of the products.

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**Manufacturer**

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