

Datasheet for ABIN102702

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

Overview

Quantity:	1 mg
Target:	IgM
Binding Specificity:	Heavy Chain
Reactivity:	Rat
Host:	Goat
Clonality:	Polyclonal
Application:	ELISA, Immunohistochemistry (IHC), Western Blotting (WB)

Product Details

Immunogen:	Immunogen: Rat IgM whole molecule
Isotype:	IgG
Specificity:	IgM μ chain Rat IgM antibody recognizes the mu chain of the Rat IgM. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Biotin, anti-Rabbit Serum, Rat IgM and Rat Serum. ELISA was used to confirm specificity at less than 1 % cross reactivity against other rat heavy or light chain isotypes.
Characteristics:	Anti-Rat IgM antibody is ideal with investigators involved in serum component protein research. Concentration Definition: by UV absorbance at 280 nm
Purification:	Preadsorption: Solid phase absorption
Sterility:	Sterile filtered

Target Details

Target: IgM

Abstract: [IgM Products](#)

Target Type: Antibody

Background: Synonyms: Goat anti-rat IgM

Background: Anti-Rat IgM antibody specifically detects rat IgM mu 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 chain) (GOAT) Antibody has been assayed against Rat IgM in a standard capture ELISA using Peroxidase Conjugated Streptavidin. A working dilution of 1:15,000 to 1:70,000 of the concentration is suggested for this product. Rat IgM antibody is suitable for immunoassays including western blot and ELISA.

ELISA Dilution: 1:80,000

Western Blot Dilution: 1:1,000 to 1:10,000

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1.0 mg/mL

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

Images

**Western Blotting**

Image 1. Western Blot of Anti-Rat IgM (mu chain) (GOAT) Antibody . Lane M: 3 μ l 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) (GOAT) Antibody 1:1,000 for 60 min at RT. Secondary Antibody: Anti-Goat IgG (DONKEY) Peroxidase Conjugated Antibody 1:40,000 in ABIN925618 for 30 min at RT. Predicted/Observed 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.