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## Rabbit Anti-Rat IgM

Catalog Number: bs-0346R

Target Protein: Rabbit Anti-Rat IgM

Form: Lyophilized

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:1000-5000), IHC-P (1:100-500), IHC-F (1:200-1000), IF, ELISA (1:2000-10000)

Reactivity: Rat

Source: Native Rat IgM: full length.

Purification: affinity purified by Protein A

Storage: 0.01M PBS (pH7.4).

Store at -20°C stable for 2 years (lyophilized powder). Avoid repeated freeze/thaw cycles.

**Background:** IgM normally constitutes about 10% of serum immunoglobulins. IgM antibody is prominent in early immune responses to most antigens and is largely confined to plasma due to its large size. Monomeric IgM is expressed as a membrane bound antibody on the surface of B cells and as a pentamer when secreted by plasma cells. Due to its high valency IgM is more efficient than other isotypes in binding antigens with repeating epitopes (virus particles and red blood cells) and is more efficient than IgG in activating the complement pathway. The gene for the mu constant region contains four domains separated by short intervening sequences.

### PRODUCT SPECIFIC PUBLICATIONS

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**[IF=3.701]** Shan Shan Qi. et al. Lycopene ameliorates diabetic osteoporosis via anti-inflammatory, anti-oxidation, and increasing Osteoprotegerin/RANKL expression ratio. J Funct Foods. 2021 Aug;83:104539 IHC ; Rat . 10.1016/j.jff.2021.104539

**[IF=1.785]** Lei Huang. et al. Changes in the interstitial cells of Cajal in the gallbladder of guinea pigs fed a lithogenic diet. Exp Ther Med. 2021 Aug;22(2):1-7 IF ; Pig . 34131446