
Goat Anti-Human IgM, Cy5 conjugated

Catalog Number: bs-0345G-Cy5

Target Protein: Goat Anti-Human IgM

Concentration: 2.0 mg/ml

Form: Liquid

Host: Goat

Clonality: Polyclonal

Isotype: IgG

Applications: IF (1:100-1000), Flow-Cyt (1:100-1000)

Excitation spectrum: 649nm

Emission spectrum: 670nm

Not yet tested in other applications.

Optimal working dilutions must be determined by the end user.

Reactivity: Human

Purification: affinity purified by Protein G

Storage: 10 mM TBS (pH=7.4) with 1% BSA, 0.03% Proclin300 and 50% glycerol.

Store at -20°C for one year. 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

[IF=12.545] Feiyang Ou. et al. Ultrasensitive monitoring of SARS-CoV-2-specific antibody responses based on a digital approach reveals one week of IgG seroconversion. BIOSENS BIOELECTRON. 2022 Sep;:114710 FCM ; Monkey . 36174360