

Monoclonal Antibody to Chicken IgM (Mu heavy chain specific) - FITC

Alternate names:	Chicken Immunoglobulin M
Catalog No.:	AM08126FC-N
Quantity:	0.5 mg
Concentration:	0.5 mg/ml
Background:	<p>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.</p> <p>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.</p> <p>IgM measurement yields information about the body's immediate resistance and response to infection as well as information related to specific diseases. Decreased levels are associated with immune deficiency states, hereditary deficiencies, and myeloma. Increased levels can be associated with Waldenstrom's macroglobulinemia, chronic infection and hepatocellular disease.</p>
Host / Isotype:	Mouse / IgG2b
Clone:	M-1
Format:	<p>State: Liquid purified Ig fraction.</p> <p>Buffer System: PBS containing 0.09% Sodium Azide as preservative.</p> <p>Label: FITC – Fluorescein Isothiocyanate Isomer 1</p>
Applications:	<p>Flow Cytometry: < / = 1 µg/10e6 cells. (Ref.1)</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Specificity:	<p>This antibody recognizes Chicken IgM (Mu heavy chain specific).</p> <p>Species: Chicken.</p> <p>Other species not tested.</p>
Storage:	<p>Store the antibody undiluted at 2-8°C for one month or in (aliquots) at -20°C for longer. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing.</p> <p>Shelf life: one year from despatch.</p>
General Readings:	1. Chen, C.H., J.E. Lehmeyer, and M.D. Cooper. 1982. J. Immunol. 129:2580.

Pictures:

Immunofluorescent Staining: Chicken peripheral blood mononuclear cells were double-stained with Mouse anti-Chicken IgM-FITC and Mouse anti-Chicken CD3-PE. Small lymphocytes were then gated and analyzed on a FACScan(TM) flow cytometer (BDIS, San Jose, CA). Amount Used: 1 µg/10e6 cells.

