

## Monoclonal Antibody to Human IgM (Mu chain specific) - PE

<b>Alternate names:</b>	Human Immunoglobulin M
<b>Catalog No.:</b>	AM08146RP-N
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	<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>
<b>Host / Isotype:</b>	Mouse / IgG3
<b>Clone:</b>	UHB
<b>Format:</b>	<p><b>State:</b> Liquid purified Ig fraction.</p> <p><b>Buffer System:</b> PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent.</p> <p><b>Label:</b> PE – R-Phycoerythrin</p>
<b>Applications:</b>	<p><b>Indirect Immunofluorescent staining</b> of IgM+ human B lymphocytes: <math>&lt; / = 0.1 \mu\text{g}/10\text{e}6</math> cells. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
<b>Specificity:</b>	<p>This antibody reacts with the heavy chain of human IgM as demonstrated by ELISA. It may also react with IgM from other species.</p> <p><b>Species:</b> Human. Other species not tested.</p>
<b>Storage:</b>	<p>Store the antibody undiluted at 2-8°C. <b>DO NOT FREEZE!</b></p> <p>This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.</p>

**For research and in vitro use only. Not for diagnostic or therapeutic work.**  
Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

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