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## AM50119PU-S Monoclonal Antibody to Human IgM (heavy chain) - Purified

Alternate names:	Human Immunoglobulin M
Quantity:	0.1 mg
Concentration:	0.2 mg/ml
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	SPM557
Immunogen:	Recombinant heavy chain of human IgM. <b>Genename:</b> IGHM
Format:	<ul> <li>State: Liquid purified IgG fraction from Bioreactor Concentrate</li> <li>Purification: Protein A/G Chromatography</li> <li>Buffer System: 10mM PBS</li> <li>Preservatives: 0.05% Sodium Azide</li> <li>Stabilizers: 0.05% BSA</li> </ul>
Applications:	<ul> <li>ELISA: Use Antibody without BSA for Coating.</li> <li>Flow Cytometry: 0.5-1 μg/10<sup>6</sup> cells.</li> <li>Immunofluorescence: 0.5-1 μg/ml.</li> <li>Western Blot: 0.5-1 μg/ml.</li> <li>Immunoprecipitation: 0.5-1 μg/500 μg protein lysate.</li> <li>Immunohistochemistry on Frozen and Formalin-Fixed Paraffin Sections: 0.5-1 μg/ml for 30 minutes at RT.</li> <li>Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes.</li> <li><i>Positive Control</i>: 293T, Raji or hPBL cells. Tonsil or Spleen.</li> <li>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</li> </ul>
Molecular Weight:	75kDa
Specificity:	Recognizes a protein of 75kDa, identified as mu heavy chain of human immunoglobulins. It does not cross-react with alpha (IgA), gamma (IgG), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes. This MAb is useful in the identification of leukemias, plasmacytomas, and certain non- Hodgkin's lymphomas. The most common feature of these malignancies is the restricted expression of a single heavy chain class. Demonstration of clonality in lymphoid infiltrates indicates that the infiltrate is clonal and therefore malignant. <u>Cellular Localization</u> : Cytoplasm, Cell Surface and Secreted. Species: Human. Other species not tested.
Storage:	Store undiluted at 2-8°C. Shelf life: one year from despatch.

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.

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General Readings:	<ol> <li>Maruyama S, Kubagawa H, Cooper MD. Activation of human B cells and inhibition of their terminal differentiation by monoclonal anti-mu antibodies. J Immunol. 1985 Jul;135(1):192-9. PubMed PMID: 3923101.</li> <li>Rudich SM, Winchester R, Mongini PK. Human B cell activation. Evidence for diverse signals provided by various monoclonal anti-IgM antibodies. J Exp Med. 1985 Oct 1;162(4):1236-55. PubMed PMID: 2413155.</li> </ol>
Pictures:	Formalin-Fixed, Paraffin-Embedded Human Tonsil stained with Human IgM Antibody CatNo AM50102PU-N (Clone SPM557).

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