

AM33324PU-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 / IgG2b**Recommended Isotype Controls:** SM12P, AM03110PU-N**Clone:** IM373**Immunogen:** Recombinant heavy chain of Human IgM.
Genename:IGHM**Format:** **State:** Liquid purified IgG fraction from Bioreactor Concentrate**Purification:** Protein A/G Chromatography**Buffer System:** 10mM PBS**Preservatives:** 0.05% Sodium Azide**Stabilizers:** 0.05% BSA**Applications:****ELISA:** Use Antibody without BSA for Coating.**Flow Cytometry:** 0.5-1 µg/10⁶ cells.**Immunofluorescence:** 0.5-1 µg/ml.**Western Blot:** 0.5-1 µg/ml.**Immunoprecipitation:** 0.5-1 µg/500 µg protein lysate.**Immunohistochemistry on Frozen and Formalin-Fixed Sections:** 0.5-1 µg/ml for 30 minutes at RT.

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.

Recommended Positive Control: 293T, Raji or hPBL cells, Tonsil or Spleen.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Molecular Weight: 50-75kDa**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 Monoclonal Antibody 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.

Cellular Localization: Cytoplasm, Cell Surface and Secreted.**Species:** Human.

Other species not tested.

Storage: Store undiluted at 2-8°C.
Shelf life: one year from despatch.

General Readings: 1. Baryshnikov Alu. [Monoclonal antibodies of the ICO series against differentiation antigens of human lymphocytes]. Gematol Transfuziol. 1990 Aug;35(8):4-7. PubMed PMID: 2253863.

Pictures: Formalin-paraffin human tonsil stained with IgM MAb (Clone IM373)

