

Human IgM Antibody

Rabbit mAb Catalog # AP91075

Specification

Human IgM Antibody - Product Information

Application WB, IHC, IP
Primary Accession P01871
Clonality Monoclonal

Other Names

IGHM; Immunoglobulin mu;

Isotype Rabbit IgG
Host Rabbit
Calculated MW 49440 Da

Human IgM Antibody - Additional Information

Dilution WB~~1:1000

IHC~~1:100~500

IP~~N/A

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human

Human IgM

Description 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.
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short

and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid

freeze / thaw cycle.

Human IgM Antibody - Protein Information

Storage Condition and Buffer

Name IGHM {ECO:0000303|PubMed:11340299, ECO:0000303|Ref.14}

Function

Constant region of immunoglobulin heavy chains. Immunoglobulins, also known as antibodies, are membrane-bound or secreted glycoproteins produced by B lymphocytes. In the recognition phase of humoral immunity, the membrane-bound immunoglobulins serve as receptors which, upon binding of a specific antigen, trigger the clonal expansion and differentiation of B lymphocytes into



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immunoglobulins- secreting plasma cells. Secreted immunoglobulins mediate the effector phase of humoral immunity, which results in the elimination of bound antigens (PubMed:<a $href="http://www.uniprot.org/citations/20176268" target="_blank">20176268, PubMed:22158414). The antigen$ binding site is formed by the variable domain of one heavy chain, together with that of its associated light chain. Thus, each immunoglobulin has two antigen binding sites with remarkable affinity for a particular antigen. The variable domains are assembled by a process called V-(D)-I rearrangement and can then be subjected to somatic hypermutations which, after exposure to antigen and selection, allow affinity maturation for a particular antigen (PubMed:17576170, PubMed:20176268).

Cellular Location

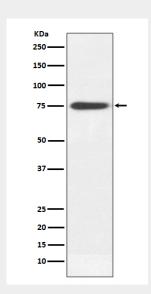
[Isoform 1]: Secreted. Note=During differentiation, B-lymphocytes switch from expression of membrane-bound IgM to secretion of IgM.

Human IgM Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Human IgM Antibody - Images



Western blot analysis of Human IgM expression in human plasma lysate.