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IgM

Mouse Monoclonal antibody(Mab)
Catalog # AD80083

Product Information

Application	IHC-P
Primary Accession	P01871
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	888F2F2
Calculated MW	51924

Additional Information

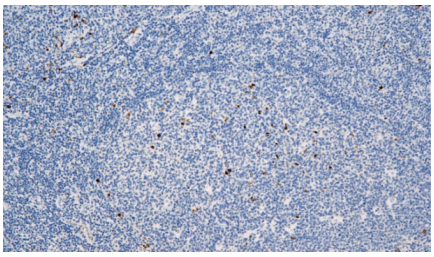
Gene Name	IGHM {ECO:0000303|PubMed:11340299, ECO:0000303|Ref.13}
Other Names	Immunoglobulin heavy constant mu {ECO:0000303|PubMed:11340299, ECO:0000303|Ref.13}, Ig mu chain C region, Ig mu chain C region BOT, Ig mu chain C region GAL, Ig mu chain C region OU, IGHM {ECO:0000303|PubMed:11340299, ECO:0000303|Ref.13}
Dilution	IHC-P~~Ready-to-use
Storage	Maintain refrigerated at 2-8°C.
Precautions	IgM Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

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 immunoglobulins- secreting plasma cells. Secreted immunoglobulins mediate the effector phase of humoral immunity, which results in the elimination of bound antigens (PubMed: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)-J 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.

Images



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