Product Name: IGHM Mouse Monoclonal Antibody

Catalog #: AMM81881



Summary

Production Name IGHM Mouse Monoclonal Antibody

Description Mouse Monoclonal Antibody

Host Mouse

Application WB,IHC,FC,ELISA

Reactivity Human

Performance

ConjugationUnconjugatedModificationUnmodifiedIsotypeMouse IgG1ClonalityMonoclonalFormLiquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw

cycles.

Buffer Purified antibody in PBS with 0.05% sodium azide

Purification Affinity Purification

Immunogen

Storage

Gene Name IGHM

Alternative Names MU; VH; AGM1

Gene ID 3507.0

P01871.Purified recombinant fragment of human IGHM (AA: 310-452) expressed in E.

Coli.

Application

SwissProt ID

Dilution Ratio WB:1:500-1:2000,IHC:1:200-1:1000,FC:1:200-1:400,ELISA:1:10000

Molecular Weight 49.3kDa

Background

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Immunoglobulins (Ig) are the antigen recognition molecules of B cells. An Ig molecule is made up of 2 identical heavy chains and 2 identical light chains (see MIM 147200) joined by disulfide bonds so that each heavy chain is linked to a light chain and the 2 heavy chains are linked together. Each Ig heavy chain has an N-terminal variable (V) region containing the antigen-binding site and a C-terminal constant (C) region, encoded by an individual C region gene, that determines the isotype of the antibody and provides effector or signaling functions. The heavy chain V region is encoded by 1 each of 3 types of genes: V genes (see MIM 147070), joining (J) genes (see MIM 147010), and diversity (D) genes (see MIM 146910). The C region genes are clustered downstream of the V region genes within the heavy chain locus on chromosome 14. The IGHM gene encodes the C region of the mu heavy chain, which defines the IgM isotype. Naive B cells express the transmembrane forms of IgM and IgD (see IGHD; MIM 1471770) on their surface. During an antibody response, activated B cells can switch to the expression of individual downstream heavy chain C region genes by a process of somatic recombination known as isotype switching. In addition, secreted Ig forms that act as antibodies can be produced by alternative RNA processing of the heavy chain C region sequences. Although the membrane forms of all Ig isotypes are monomeric, secreted IgM forms pentamers, and occasionally hexamers, in plasma (summary by Janeway et al., 2005).

2005).

Some / Processing of the leavy chain C region sequences. Although the membrane forms of all Ig isotypes are monomeric, secreted IgM forms pentamers, and occasionally hexamers, in plasma (summary by Janeway et al., 2005).

Research Area

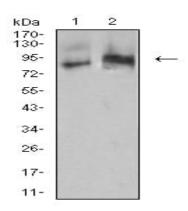
Image Data



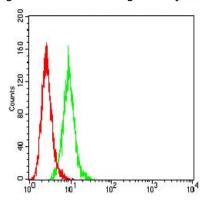
Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

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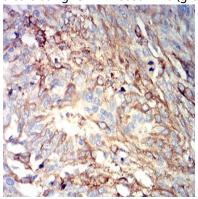




Western blot analysis using IGHM mouse mAb against Raji (1) and Ramos (2) cell lysate.



Flow cytometric analysis of HeLa cells using IGHM mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded human esophageal cancer tissues using IGHM mouse mAb with DAB staining.

Note

For research use only.