Rabbit anti-Human IgM mAb

Catalog No.: A24260



Basic Information

Observed MW

75kDa

Calculated MW

49kDa

Category

Primary antibody

Applications

WB,IF/ICC,FC,ELISA

Cross-Reactivity

Human

CloneNo number

ARC63173

Background

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).

Recommended Dilutions

WB 1:1000 - 1:4000

IF/ICC 1:200 - 1:800

FC 1:500 - 1:1000

ELISA Recommended starting

concentration is 1 µg/mL.

Please optimize the
concentration based on
your specific assay
requirements.

Immunogen Information

Gene ID Swiss Prot 3507 P01871

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 218-453 of Human IgM(P01871).

Synonyms

MU; VH; AGM1; Human IgM

Contact

| <u>a</u> | | 400-999-6126 |
|-----------|---|---------------------------|
| \bowtie | | cn.market@abclonal.com.cn |
| \odot | 1 | www.abclonal.com.cn |

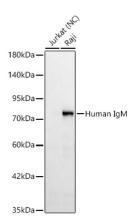
Product Information

SourceIsotypePurificationRabbitIgGAffinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.



Western blot analysis of lysates from Raji cells, using Rabbit anti-Human IgM mAb (A24260) at 1:1000 dilution.

Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

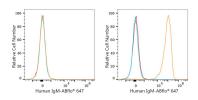
Lysates/proteins: 25µg per lane.

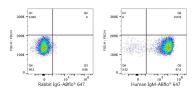
Blocking buffer: 3% nonfat dry milk in TBST.

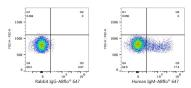
Detection: ECL Basic Kit (RM00020).

Negative control (NC): Jurkat

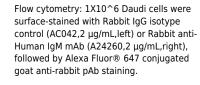
Exposure time: 20s.



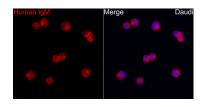




Flow cytometry: 1X10^6 Jurkat cells (negative control,left) and Daudi cells (right) were surface-stained with Rabbit anti-Human lgM mAb (A24260,2 $\mu g/mL$,orange line) or ABflo® 647 Rabbit lgG isotype control (A22070,5 μ l/Test,blue line), followed by Alexa Fluor® 647 conjugated goat antirabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1X10^6 Human PBMC were surface-stained with Rabbit IgG isotype control (AC042,2 µg/mL,left) or Rabbit anti-Human IgM mAb (A24260,2 µg/mL,right), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining.



Confocal imaging of Daudi cells using Rabbit anti-Human IgM mAb (A24260, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.