

PE Rabbit anti-Human/Monkey IgM (FC) mAb

Catalog No.: A26471

Basic Information

Observed MW**Calculated MW**

49kDa

Category

Primary antibody

Applications

FC

Cross-Reactivity

Human, Cynomolgus

CloneNo number

ARC63173

Conjugate

PE. Ex:565nm. Em:574nm.

Recommended Dilutions

FC 5 μ l per 10^6 cells in
100 μ l volume

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).

Immunogen Information

Gene ID

3507

Swiss Prot

P01871

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

MU; VH; AGM1

Contact

 | 400-999-6126 | cn.market@abclonal.com.cn | www.abclonal.com.cn

Product Information

Source

Rabbit

Isotype

IgG

Purification

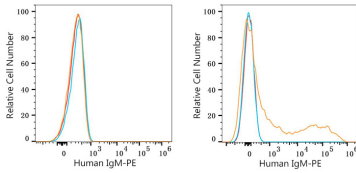
Affinity purification

Storage

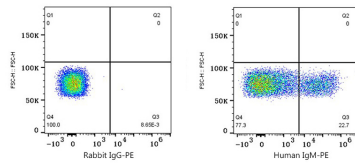
Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.09% Sodium azide, 0.2% BSA, pH7.3.

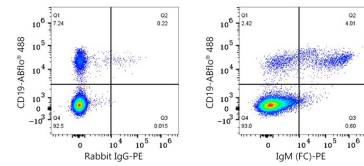
Validation Data



Flow cytometry: 1×10^6 Jurkat cells (negative control, left) and Human PBMCs (right) were surface-stained with PE Rabbit anti-Human IgM mAb (A26471, 5 $\mu\text{l}/\text{Test}$, orange line) or PE Rabbit IgG isotype control (A24172, 5 $\mu\text{l}/\text{Test}$, blue line). Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1×10^6 Human PBMCs were surface-stained with PE Rabbit IgG isotype control (A24172, 5 $\mu\text{l}/\text{Test}$, left) or PE Rabbit anti-Human IgM mAb (A26471, 5 $\mu\text{l}/\text{Test}$, right).



Flow cytometry: 1×10^6 Cynomolgus PBMC were surface-stained with ABRflor® 488 Rabbit anti-Human/Monkey CD19 mAb (A23008, 5 $\mu\text{l}/\text{Test}$) and PE Rabbit IgG isotype control (A24172, 5 $\mu\text{l}/\text{Test}$, left) or PE Rabbit anti-Human/Monkey IgM (FC) mAb (A26471, 5 $\mu\text{l}/\text{Test}$, right). Cells in the lymphocyte gate were used for analysis.