

Rabbit anti-Human IgM Monoclonal Antibody | anti-IGHM antibody

Rabbit anti-Human IgM mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283048	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunocytochemistry, Immunofluorescence, Western Blot

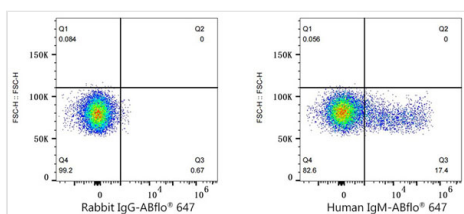
PRODUCT SYNONYMS

IgM; Monoclonal Antibody; Rabbit anti-Human IgM mAb; MU; VH; AGM1; Human IgM; anti-IGHM antibody

PRODUCT SPECIFICATIONS

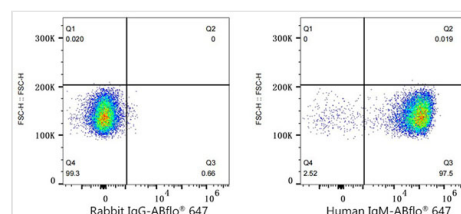
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.
Sequence	QDTAIRVFAI PPSFASIFLT KSTKLTCCLVT DLTYYDSVTI SWTRQNGEAV KTHTNISESH PNATFSAVGE ASICEDDWNS GERFTCTVTH TDLPSPLKQT ISRPKGVALH RPDVYLLPPA REQLNLRESA TITCLVTGFS PADVFVQWMQ RGQPLSPEKY VTSAPMPEPQ APGRYFAHSI LTVSEEWNT GETYTCVVAH EALPNRVTER TVDKSTGKPT LYNVSLVMSD TAGTCY
Applicable Applications for anti-IGHM antibody	ELISA, FCM/FACS (Flow Cytometry), ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 218-453 of Human IgM(P01871).
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



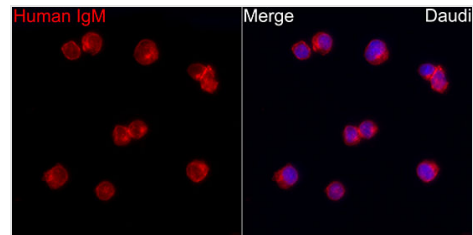
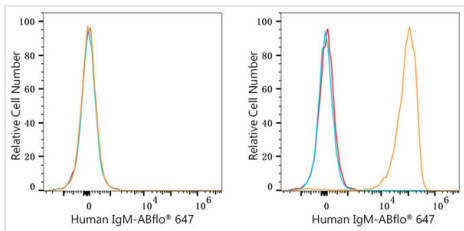
FCM/FACS (Flow Cytometry)

Flow cytometry: 1X10⁶ Human PBMC were surface-stained with Rabbit IgG isotype control (AC042,2 ug/mL,left) or Rabbit anti-Human IgM mAb (AAA283048,2 ug/mL,right), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining.



FCM/FACS (Flow Cytometry)

Flow cytometry: 1X10⁶ Daudi cells were surface-stained with Rabbit IgG isotype control (AC042,2 ug/mL,left) or Rabbit anti-Human IgM mAb (AAA283048,2 ug/mL,right), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining.

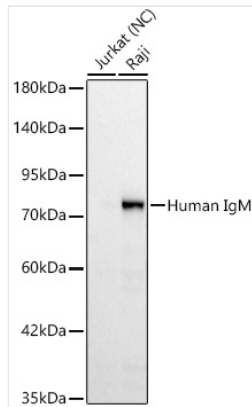


FCM/FACS (Flow Cytometry)

Flow cytometry: 1×10^6 Jurkat cells (negative control, left) and Daudi cells (right) were surface-stained with Rabbit anti-Human IgM mAb (AAA283048, 2 μ g/mL, orange line) or ABflo® 647 Rabbit IgG isotype control (A22070, 5 μ l/Test, blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).

ICC (Immunocytochemistry)

Confocal imaging of Daudi cells using Rabbit anti-Human IgM mAb (AAA283048, dilution 1:200), (Red). DAPI was used for nuclear staining (blue). Objective: 40x.



WB (Western Blot)

Western blot analysis of lysates from Raji cells, using Rabbit anti-Human IgM mAb (AAA283048) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 μ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Negative control (NC): Jurkat. Exposure time: 20s.

ADDITIONAL INFORMATION

Related Product Information for anti-IGHM antibody

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).

Product Categories/Family for anti-IGHM antibody

[Immunology Inflammation](#); [Antibodies](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	193806374
NCBI GeneID	3507
UniProt Accession #	P01871 ; P20769

Molecular Weight	Calculated MW: 49kDa Observed MW: 75kDa
UniProt Protein Name	Ig mu chain C region
UniProt Gene Name	IGHM
UniProt Entry Name	IGHM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/igm-antibody-flow-cytometry-immunocytochemistry-immunofluorescence-western-blot-elisa/283048>