

## Mouse anti-Human CD19 Monoclonal Antibody | anti-CD19 antibody

Anti-CD19 Antibody, Mouse Monoclonal

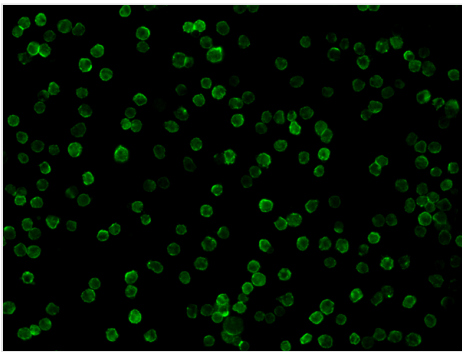
| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                                                              |
|-----------|-------|------------|---------------------------------------------------------------------------|
| AAA255479 | Mouse | Human      | Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay |

### PRODUCT SYNONYMS

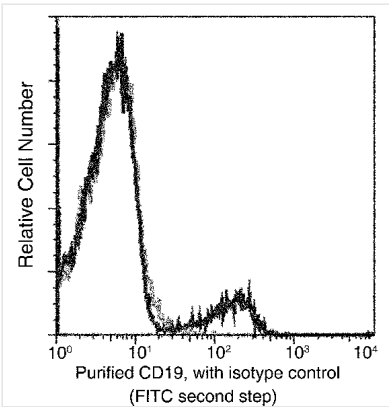
CD19; Monoclonal Antibody; Anti-CD19 Antibody; Mouse Monoclonal; CD19 Antibody; Mouse MAb; CD19 molecule; Anti-B4 Antibody; Anti-CVID3 Antibody; anti-CD19 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                                            |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                                                                                                                                                      |
| Reactivity                                     | Human                                                                                                                                                                                                                                                                                      |
| Clonality                                      | Monoclonal                                                                                                                                                                                                                                                                                 |
| Isotype                                        | Mouse IgG1                                                                                                                                                                                                                                                                                 |
| Clone Number                                   | 17                                                                                                                                                                                                                                                                                         |
| Specificity                                    | Human CD19                                                                                                                                                                                                                                                                                 |
| Purity/Purification                            | Protein A                                                                                                                                                                                                                                                                                  |
| Form/Format                                    | Liquid; 0.2um filtered solution in PBS                                                                                                                                                                                                                                                     |
| Applicable Applications for anti-CD19 antibody | IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry)                                                                                                                                                                                                              |
| Immunogen                                      | Recombinant Human CD19 Protein                                                                                                                                                                                                                                                             |
| Conjugation                                    | Unconjugated                                                                                                                                                                                                                                                                               |
| Preparation                                    | This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human CD19 (rh CD19). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography. |
| Preparation and Storage                        | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.                      |



**IF (Immunofluorescence)**  
Immunofluorescence staining of CD19 in Raji cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with mouse anti-human CD19 monoclonal antibody (dilution ratio 1:60) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-mouse IgG secondary antibody (green). Positive staining was localized to Cytoplasm and Cell membrane.



**FCM/FACS (Flow Cytometry)**  
Flow cytometric analysis of Human CD19 expression on human whole blood lymphocytes. Cells were stained with purified anti-Human CD19, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of viable lymphocytes.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CD19 antibody | The cluster of differentiation (CD) system is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. Cluster of differentiation 19 (CD19) is a member of CD system. CD19 is a cell surface molecule that assembles with the antigen receptor of B-cells. This results in a descent in the threshold for antigen receptor-dependent stimulation. A simplified view holds that the ability of B-cells to respond to the various antigens in a specific and sensitive manner is achieved in the presence of low-affinity antigen receptors. CD19 primarily acts as a B-cell co-receptor in conjunction with CD21 and CD81. The formation of the receptor complex is induced by antigen and CD19, induced by exogenous antigen, has been found cytoplasmic tail phosphorylated and bind to slg. |
| Product Categories/Family for anti-CD19 antibody   | Cancer Drug Targets; B Cell Receptor Signaling Pathway                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| References                                         | Zola H, et al. (2007) CD molecules 2006-human cell differentiation molecules. J Immunol Methods. 318 (1-2): 1-5.<br>Ho IC, et al. (2009) GATA3 and the T-cell lineage: essential functions before and after T-helper-2-cell differentiation. Nat Rev Immunol. 9 (2): 125-35.<br>Matesanz-Isabel J, et al. (2011) New B-cell CD molecules. Immunology Letters.134 (2): 104-12.<br>Carter RH, et al. (1992) CD19: lowering the threshold for antigen receptor stimulation of B lymphocytes. Science. 256 (5053): 105-7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

NCBI AND UNIPROT INFORMATION

|                                  |                                     |
|----------------------------------|-------------------------------------|
| NCBI GI #                        | 296010921                           |
| NCBI GeneID                      | 930                                 |
| NCBI Accession #                 | NP_001171569.1                      |
| NCBI GenBank Nucleotide #        | NM_001178098.1                      |
| UniProt Accession #              | P15391; Q96S68; Q9BRD6; A0N0P9      |
| Molecular Weight                 | 61,128 Da                           |
| NCBI Official Full Name          | B-lymphocyte antigen CD19 isoform 1 |
| NCBI Official Synonym Full Names | CD19 molecule                       |
| NCBI Official Symbol             | CD19                                |

|                               |                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| NCBI Official Synonym Symbols | B4; CVID3                                                                                                               |
| NCBI Protein Information      | B-lymphocyte antigen CD19; differentiation antigen CD19; T-cell surface antigen Leu-12; B-lymphocyte surface antigen B4 |
| UniProt Protein Name          | B-lymphocyte antigen CD19                                                                                               |
| UniProt Gene Name             | <b>CD19</b>                                                                                                             |
| UniProt Entry Name            | CD19_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.

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Online datasheet: <https://www.aaabiotech.com/monoclonal/cd19-antibody-clone-17-immunofluorescence-immunocytochemistry-flow-cytometry-elisa/255479>