# CD52 Monoclonal Antibody (CF1D12), Super Bright™ 436, eBioscience™

| Product Details | |
|---|---|
| Size | 25 Tests |
| Species Reactivity | Human |
| Host/Isotype | Mouse / IgG3, kappa |
| Class | Monoclonal |
| Type | Antibody |
| Clone | CF1D12 |
| Conjugate | Super Bright™ 436 |
| Excitation/Emission Max | 413/431 nm |
| Immunogen | Human CD52 |
| Form | Liquid |
| Concentration | 5 µL/Test |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2, with BSA |
| Contains | 0.09% sodium azide |
| Storage conditions | 4° C, store in dark, DO NOT FREEZE! |
| RRID | AB_2762515 |

| Applications | Tested Dilution | Publications |
|---|---|---|
| Flow Cytometry (Flow) | 5 µL (0.25 µg)/test | - |

### Product Specific Information

Description: This CF1D12 monoclonal antibody reacts with human CD52, a cell surface glycoprotein expressed in the immune and reproductive systems. CF1D12 is thought to recognize the carbohydrate region of CD52, not the protein core of the molecule. Tissue-specific modifications of the glycan structure may alter epitope recognition in certain applications. For example, this CF1D12 clone has been reported to recognize human sperm glycoforms of CD52 by western blot, but not by flow cytometry. The immunogen used to generate this antibody was human CD52.

Applications Reported: This CF1D12 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This CF1D12 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

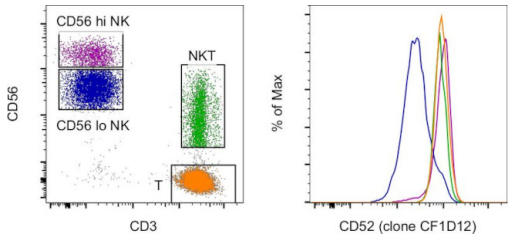
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

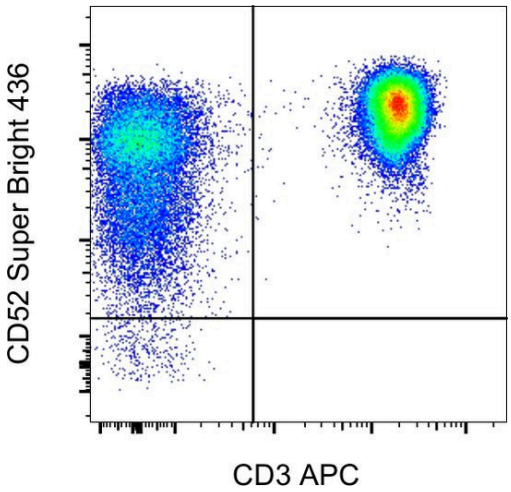
Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

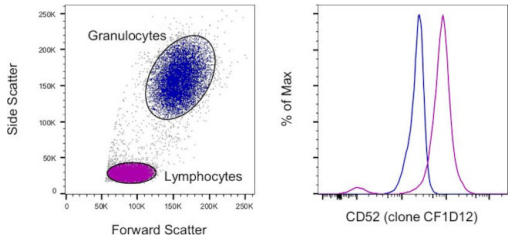
## Product Images For CD52 Monoclonal Antibody (CF1D12), Super Bright™ 436, eBioscience™




**CD52 Antibody (62-0529-41)**
Staining of human peripheral blood cells. As expected based on known expression patterns, CD52 clone CF1D12 stains CD56(lo/dim) NK cells with lower intensity compared with CD56(hi/bright) NK, NKT, and T cells. Details: Normal human peripheral blood cells were surface stained with CD52 (clone CF1D12), CD56 (clone TULY56), CD3 (clone UCHT1), and CD19 (clone HIB19). CD3+ T cells (orange histogram), CD3+ CD56+ NKT cells (green histogram), and CD56(hi/bright) CD3- NK cells (purple histogram) expressed a higher level of CD52 compared with CD56(lo/dim) CD3- NK cells. CD19- lymphocytes were used for analysis. {RE}




**CD52 Antibody (62-0529-41) in Flow**
Normal human peripheral blood cells were stained with CD3 Monoclonal Antibody, APC (Product # 17-0038-42) and CD52 Monoclonal Antibody, Super Bright 436. Cells in the lymphocyte gate were used for analysis.




**CD52 Antibody (62-0529-41)**
Staining of human peripheral blood cells. As expected based on known expression patterns, CD52 clone CF1D12 stains lymphocytes with higher intensity compared with granulocytes Details: Normal human blood was lysed using 10X RBC Lysis Buffer. The cells were then stained with CD52 (clone CF1D12). Cells in the lymphocyte (purple histogram) or granulocyte (blue histogram) were used for analysis. {RE}