

CD4 Monoclonal Antibody (RM4-5), Super Bright 436, eBioscience™

| Product Details | |
|-----------------------------|---|
| Size | 100 µg |
| Species Reactivity | Mouse |
| Host/Isotope | Rat / IgG2a, kappa |
| Recommended Isotype Control | Rat IgG2a kappa Isotype Control (eBR2a), Super Bright 436, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | RM4-5 |
| Conjugate | Super Bright 436 |
| Form | Liquid |
| Concentration | 0.2 mg/mL |
| 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_2716977 |

| Applications | Tested | Dilution | Published |
|-----------------------|--------|-------------|-----------|
| Flow Cytometry (Flow) | ✓ | 0.5 µg/test | |

Product Specific Information

Description: The RM4-5 monoclonal antibody reacts with the mouse CD4 molecule, a 55 kDa cell surface receptor expressed by a majority of thymocytes, subpopulation of mature T cells and dendritic cells. CD4 binds to MHC class II on the surface of antigen presenting cells and plays an important role both in T cell development and in optimal functioning of mature T cells. In T cells, CD4 associates with protein tyrosine kinase p56lck through its cytoplasmic tail. Binding of RM4-5 is blocked by GK1.5.

Applications Reported: This RM4-5 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This RM4-5 antibody has been tested by flow cytometric analysis of mouse splenocytes. This may be used at less than or equal to 0.5 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

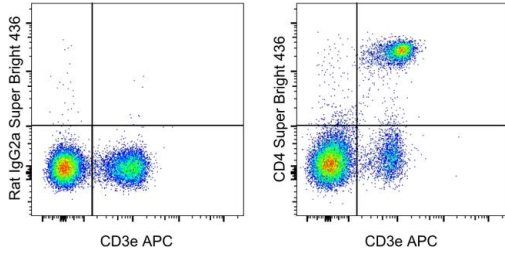
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

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 CD4 Monoclonal Antibody (RM4-5), Super Bright 436, eBioscience™



CD4 Antibody (62-0042-82) in Flow

BALB/c mouse splenocytes were stained with CD3e Monoclonal Antibody, APC (Product # 17-0031-82) and 0.25 μ g of Rat IgG2a kappa Isotype Control, Super Bright 436 (Product # 62-4321-82) (left) or 0.25 μ g of CD4 Monoclonal Antibody, Super Bright 436 (right). Cells in the lymphocyte gate were used for analysis.

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