

# CD25 Monoclonal Antibody (BC96), Super Bright™ 702, eBioscience™

| Product Details             |  |
|-----------------------------|--|
| Size                        | 100 Tests  |
| Species Reactivity          | Human  |
| Host/Isotype                | Mouse / IgG1, kappa  |
| Recommended Isotype Control | Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 702, eBioscience™ |
| Class                       | Monoclonal   |
| Type                        | Antibody   |
| Clone                       | BC96   |
| Conjugate                   | Super Bright™ 702  |
| Excitation/Emission Max     | 413/702 nm   |
| 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_2688271   |

| Applications          | Tested Dilution    | Publications    |
|-----------------------|--------------------|-----------------|
| Flow Cytometry (Flow) | 5 µL (0.5 µg)/test | 21 Publications |

### Product Specific Information

Description: The BC96 monoclonal antibody reacts with human CD25, the 55 kDa interleukin-2 receptor alpha chain (IL-2Ralpha). CD25 is expressed by early progenitors of T and B lineage as well as by activated mature T and B lymphocytes. By itself, CD25 binds IL-2 only with low affinity. However, CD25 associates with CD122 (IL-2 receptor beta chain) and CD132 (common gamma chain) to form the high affinity IL-2 receptor. CD25 plays a role in lymphocyte differentiating and activation /proliferation.

Applications Reported: This BC96 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This BC96 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (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 10^5 to 10^8 cells /test.

Super Bright 702 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 702 nm. We recommend using a 710/50 bandpass filter. 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.

Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from

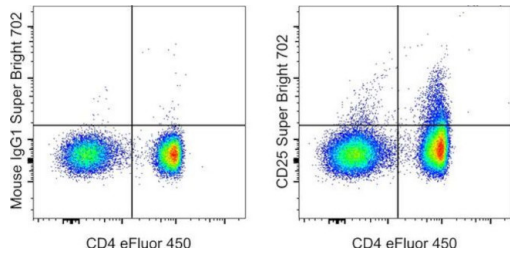
light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 702 nm; Laser: Violet Laser

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

Product Images For CD25 Monoclonal Antibody (BC96), Super Bright™ 702, eBioscience™



**CD25 Antibody (67-0259-42) in Flow**  
Staining of normal human peripheral blood cells with Anti-Human CD4 eFluor® 450 (Product # 48-0049-42) and of Mouse IgG1 kappa Isotype Control Super Bright 702 (Product # 67-4714-82) (left) or Anti-Human CD25 Super Bright 702 (right). Cells in the lymphocyte gate were used for analysis.

View more figures on [thermofisher.com](https://thermofisher.com)

21 References

Flow Cytometry (21)

|   |                         |
|---|-------------------------|
| <p>Frontiers in immunology</p> <p><b>Advanced immunophenotyping: A powerful tool for immune profiling, drug screening, and a personalized treatment approach.</b></p> <p>"Published figure using CD25 monoclonal antibody (Product # 67-0259-42) in Flow Cytometry"</p> <p>Authors: Preglej T,Brinkmann M,Steiner G,Aletaha D,Göschl L,Bonelli M</p>    | <p>Year</p> <p>2023</p> |
| <p>Frontiers in aging neuroscience</p> <p><b>Rotenone aggravates PD-like pathology in A53T mutant human - synuclein transgenic mice in an age-dependent manner.</b></p> <p>"Published figure using CD25 monoclonal antibody (Product # 67-0259-42) in Flow Cytometry"</p> <p>Authors: Chen AD,Cao JX,Chen HC,Du HL,Xi XX,Sun J,Yin J,Jing YH,Gao LP</p> | <p>Year</p> <p>2022</p> |

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