

# CD25 Monoclonal Antibody (PC61.5), Brilliant Violet™ 711, eBioscience™

| Product Details             |                                                                             |
|-----------------------------|-----------------------------------------------------------------------------|
| Size                        | 25 µg                                                                       |
| Species Reactivity          | Mouse                                                                       |
| Host/Isotype                | Rat / IgG1, lambda                                                          |
| Recommended Isotype Control | Rat IgG1 kappa Isotype Control (eBRG1), Brilliant Violet™ 711, eBioscience™ |
| Class                       | Monoclonal                                                                  |
| Type                        | Antibody                                                                    |
| Clone                       | PC61.5                                                                      |
| Conjugate                   | Brilliant Violet™ 711                                                       |
| Excitation/Emission Max     | 406/711 nm                                                                  |
| 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_2925559                                                                  |

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

## Product Specific Information

**Description:** The PC61.5 antibody reacts with mouse CD25, the 55 kDa interleukin-2 receptor alpha chain (IL-2R alpha). CD25 is expressed by early progenitors of the 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. Binding of IL-2 to both the high and low affinity classes of IL-2 receptor is inhibited by the PC61.5 antibody. CD25 plays a role in lymphocyte differentiation and activation/proliferation.

**Applications Reported:** This PC61.5 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This PC61.5 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Brilliant Violet™ 711 (BV711) is a tandem dye that emits at 713 nm and is intended for use on cytometers equipped with a violet (405 nm) laser. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright, Brilliant Violet™, Brilliant Ultra Violet™, or other polymer dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401-42) or Brilliant Stain Buffer™ (Product # 00-4409-75) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer or Brilliant Stain Buffer for more information.

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

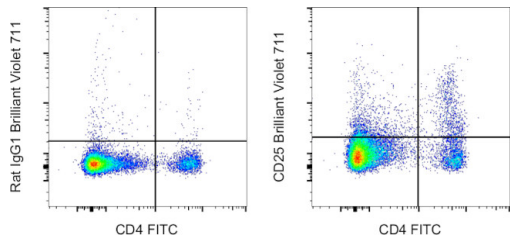
Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone-specific performance should be determined empirically.

Our internal testing suggests that Brilliant Violet™ 711 (BV711) is not compatible with methanol-based fixation.

Excitation: 407 nm; Emission: 713 nm; Laser: Violet Laser.

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Product Images For CD25 Monoclonal Antibody (PC61.5), Brilliant Violet™ 711, eBioscience™



**CD25 Antibody (407-0251-80) in Flow**  
BALB/c mouse splenocytes were stained with CD4 Monoclonal Antibody, FITC (Product # 11-0041-82) and 0.25 µg of Rat IgG1 kappa Isotype Control, Brilliant Violet 711 (Product # 407-4301-81) (left) or 0.25 µg of CD25 Monoclonal Antibody, Brilliant Violet 711 (right). Viable cells in the lymphocyte gate were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

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