

# CD3e Monoclonal Antibody (145-2C11), Brilliant Violet™ 650, eBioscience™

| Product Details             |  |
|-----------------------------|--|
| Size                        | 25 µg  |
| Species Reactivity          | Mouse  |
| Host/Isotype                | Armenian hamster / IgG   |
| Recommended Isotype Control | Armenian Hamster IgG Isotype Control (eBio299Arm), Brilliant Violet™ 650, eBioscience™ |
| Class                       | Monoclonal   |
| Type                        | Antibody   |
| Clone                       | 145-2C11   |
| Conjugate                   | Brilliant Violet™ 650  |
| Excitation/Emission Max     | 407/646 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_2925667   |

| Applications          | Tested Dilution | Publications |
|-----------------------|-----------------|--------------|
| Flow Cytometry (Flow) | 1.0 µg/test     | -            |

## Product Specific Information

Description: The 145-2C11 monoclonal antibody reacts with mouse CD3e, a 20 kDa subunit of the TCR complex. Along with the other CD3 subunits, gamma and delta, the epsilon chain is required for proper assembly, trafficking and surface expression of the TCR complex. CD3 is expressed by thymocytes in a developmentally regulated manner and by all mature T cells. Binding of 145-2C11 to TCR initiates the intracellular biochemical pathway resulting in cellular activation, proliferation, and apoptosis depending on specific conditions utilized. 145-2C11 is commonly used as a phenotypic marker for mouse T cells.™

Applications Reported: This 145-2C11 antibody has been reported for use in flow cytometric analysis.™

Applications Tested: This 145-2C11 antibody has been tested by flow cytometric analysis of mouse splenocytes. This may be used at less than or equal to 1.0 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™ 650 (BV650) is a tandem dye that emits at 649 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. ^M

^M

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. ^M

^M

Our internal testing suggests that Brilliant Violet™ 650 (BV650) is not compatible with methanol-based fixation. ^M

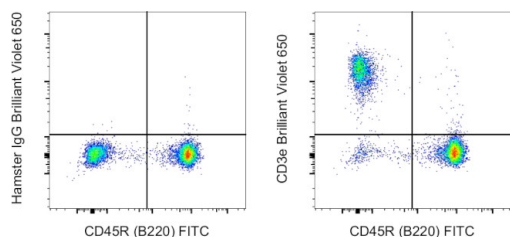
^M

Excitation: 407 nm; Emission: 649 nm; Laser: Violet Laser. ^M

^M

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## Product Images For CD3e Monoclonal Antibody (145-2C11), Brilliant Violet™ 650, eBioscience™



### CD3e Antibody (416-0031-80) in Flow

BALB/c mouse splenocytes were stained with CD45R (B220) Monoclonal Antibody, FITC (Product # 11-0452-82) and 1.0 µg of Armenian Hamster IgG Isotype Control, Brilliant Violet 650 (Product # 416-4888-81) (left) or 1.0 µg of CD3e Monoclonal Antibody, Brilliant Violet 650 (right). Viable cells in the lymphocyte gate were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

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