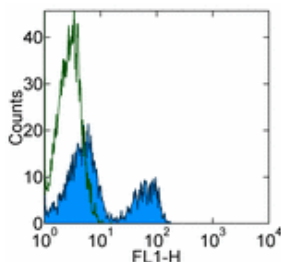


## Anti-Mouse CD3e Alexa Fluor® 488

Catalog Number: 53-0031

Also Known As: CD3 epsilon

RUO: For Research Use Only



Staining of C57BL/6 splenocytes with staining buffer (autofluorescence) (open histogram) or 0.5 µg of Anti-Mouse CD3e Alexa Fluor® 488 (filled histogram). Cells in the lymphocyte gate were used for analysis.

### Product Information

Contents: Anti-Mouse CD3e Alexa Fluor® 488


**REF** Catalog Number: 53-0031

Clone: 145-2C11

Concentration: 0.5 mg/ml


Host/Isotype: Armenian Hamster IgG

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.

**LOT** Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

### 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 thymocyte and splenocyte suspensions. This can be used at less than or equal to 1 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

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Kearse KP. Calnexin associates with monomeric and oligomeric (disulfide-linked) CD3delta proteins in murine T lymphocytes. *J Biol Chem*. 1998 Jun 5;273(23):14152-7. (145-2C11, IP and WB)

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#### Related Products

53-4888 Armenian Hamster IgG Isotype Control Alexa Fluor® 488 (eBio299Arm)

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