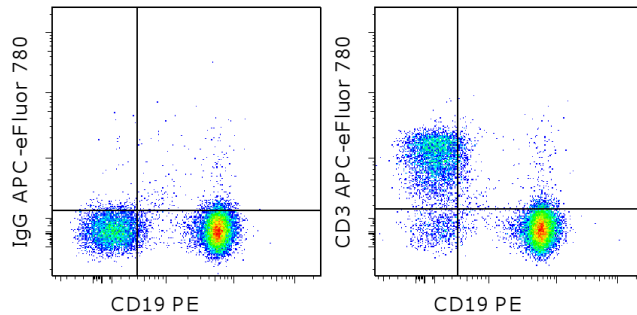


Anti-Mouse CD3e APC-eFluor[®] 780

Catalog Number: 47-0031

Also known as: CD3 epsilon

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of C57Bl/6 splenocytes with Anti-Mouse CD19 PE (cat. 12-0193) and 0.5 ug of Armenian Hamster IgG Isotype Control APC-eFluor[®] 780 (cat. 47-4888) (left) or 0.5 ug of Anti-Mouse CD3e APC-eFluor[®] 780 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD3e APC-eFluor[®] 780

REF **Catalog Number:** 47-0031

Clone: 145-2C11

Concentration: 0.2 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. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium 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 splenocytes. 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

APC-eFluor[®] emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochoime.

Light sensitivity: Tandem is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on

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Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com •
info@ebioscience.com

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brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

References

Geng H, Zhang GM, Xiao H, Yuan Y, Li D, Zhang H, Qiu H, He YF, Feng ZH. HSP70 vaccine in combination with gene therapy with plasmid DNA encoding sPD-1 overcomes immune resistance and suppresses the progression of pulmonary metastatic melanoma. *Int J Cancer*. 2006 Jun 1;118(11):2657-64. (**145-2C11**, IHC frozen, PubMed)

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Schuchert MJ, Wright RD, Colson YL. Characterization of a newly discovered T-cell receptor beta-chain heterodimer expressed on a CD8+ bone marrow subpopulation that promotes allogeneic stem cell engraftment. *Nat Med*. 2000 Aug;6(8):904-9. (**145-2C11**, WB and IP)

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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Leo O, Foo M, Sachs DH, Samelson LE, Bluestone JA. Identification of a monoclonal antibody specific for a murine T3 polypeptide. *Proc Natl Acad Sci U S A*. 1987 Mar;84(5):1374-8

Related Products

00-4222 Flow Cytometry Staining Buffer

12-0193 Anti-Mouse CD19 PE (eBio1D3 (1D3))

47-4888 Armenian Hamster IgG Isotype Control APC-eFluor® 780 (eBio299Arm)