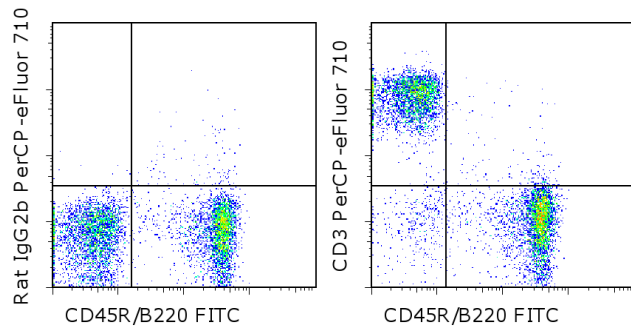


Anti-Mouse CD3 PerCP-eFluor[®] 710

Catalog Number: 46-0032

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



Staining of BALB/c splenocytes with Anti-Human/Mouse CD45R (B220) FITC (cat. 11-0452) and 0.125 μ g of Rat IgG2b K Isotype Control PerCP-eFluor[®] 710 (cat. 46-4031) (left) or 0.125 μ g of Anti-Mouse CD3 PerCP-eFluor[®] 710 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD3 PerCP-eFluor[®] 710

REF **Catalog Number:** 46-0032

Clone: 17A2

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2b, kappa

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.

Batch Code: Refer to vial

Use By: Refer to vial

Caution, contains Azide



Description

The 17A2 monoclonal antibody reacts with the mouse CD3 complex. CD3 subunits gamma, delta and epsilon are 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 17A2 to CD3 initiates the intracellular biochemical pathway resulting in cellular activation and proliferation.

Applications Reported

This 17A2 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This 17A2 antibody has been tested by flow cytometric analysis of mouse spleen cells. This can be used at less than or equal to 0.25 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. 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.

PerCP-eFluor[®] 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor[®] 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L cell sample + 100 μ L 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 brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

References

Zhang Y, McCormick LL, Desai SR, Wu C, Gilliam AC. Murine sclerodermatous graft-versus-host disease, a model for human scleroderma: cutaneous cytokines, chemokines, and immune cell activation. J Immunol. 2002 Mar 15;168(6):3088-98.(17A2, IH/F, PubMed)

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Miescher, G. C., M. Schreyer, et al. Production and characterization of a rat monoclonal antibody against the murine CD3 molecular complex. *Immunol Lett.* 1989; 23(2): 113-8.

Related Products

11-0452 Anti-Human/Mouse CD45R (B220) FITC (RA3-6B2)

46-4031 Rat IgG2b K Isotype Control PerCP-eFluor® 710

56-0452 Anti-Human/Mouse CD45R (B220) Alexa Fluor® 700 (RA3-6B2)

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