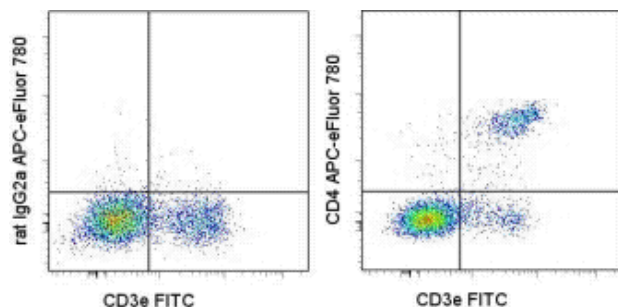


Anti-Mouse CD4 APC-eFluor® 780

Catalog Number: 47-0042

Also Known As: L3T4, Ly-4

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



Staining of BALB/c splenocytes with Anti-Mouse CD3e FITC (cat. 11-0031) and 0.06 ug of Rat IgG2a kappa Isotype Control APC-eFluor® 780 (cat. 47-4321) (left) or 0.06 ug of Anti-Mouse CD4 APC-eFluor® 780 (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD4 APC-eFluor® 780

REF **Catalog Number:** 47-0042

Clone: RM4-5

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2a, 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. 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



Caution, contains Azide

Description

The RM4-5 monoclonal antibody reacts with the mouse CD4 molecule, a 55 kDa cell surface receptor expressed by a majority of thymocytes, subpopulation of mature T cells and dendritic cells. CD4 binds to MHC class II on the surface of antigen presenting cells and plays an important role both in T cell development and in optimal functioning of mature T cells. In T cells, CD4 associates with protein tyrosine kinase p56lck through its cytoplasmic tail. Binding of RM4-5 is blocked by GK1.5.

Applications Reported

This RM4-5 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This RM4-5 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.125 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 fluorochrome.

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

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Related Products

11-0031 Anti-Mouse CD3e FITC (145-2C11)

47-4321 Rat IgG2a K Isotype Control APC-eFluor® 780 (eBR2a)

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