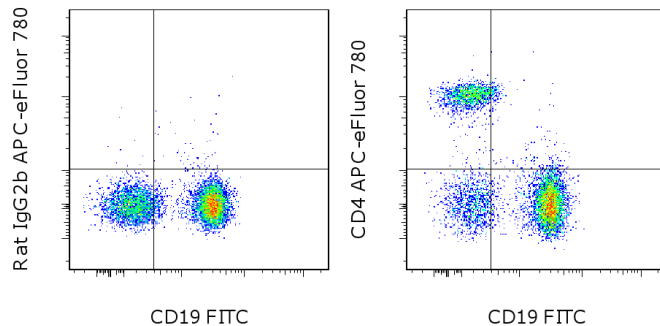


## Anti-Mouse CD4 APC-eFluor<sup>®</sup> 780

**Catalog Number:** 47-0041

**Also known as:** L3T4, Ly-4

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



Staining of C57Bl/6 splenocytes with Anti-Mouse CD19 FITC (cat. 11-0193) and 0.06 ug of Rat IgG2b K Isotype Control APC-eFluor<sup>®</sup> 780 (cat. 47-4031) (left) or 0.06 ug of Anti-Mouse CD4 APC-eFluor<sup>®</sup> 780 (right). Cells in the lymphocyte gate were used for analysis.

### Product Information

**Contents:** Anti-Mouse CD4 APC-eFluor<sup>®</sup> 780

**REF** **Catalog Number:** 47-0041

**Clone:** GK1.5

**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. 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 GK1.5 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 GK1.5 is blocked by RM4-5.

### Applications Reported

This GK1.5 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This GK1.5 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 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.

**APC-eFluor<sup>®</sup> 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**

Not for further distribution without written consent.

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**after fixation can be made, but clone specific performance should be determined empirically.**

### References

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Yang Z, Day YJ, Toufektsian MC, Xu Y, Ramos SI, Marshall MA, French BA, Linden J. Myocardial infarct-sparing effect of adenosine A2A receptor activation is due to its action on CD4+ T lymphocytes. *Circulation.* 2006 Nov 7;114(19):2056-64. (**GK1.5**, in vivo depletion, PubMed)

Dialynas DP, Quan ZS, Wall KA, Pierres A, Quintáns J, Loken MR, Pierres M, Fitch FW. Characterization of the murine T cell surface molecule, designated L3T4, identified by monoclonal antibody GK1.5: similarity of L3T4 to the human Leu-3/T4 molecule. *J Immunol.* 1983 Nov;131(5):2445-51.

Wilde DB, Marrack P, Kappler J, Dialynas DP, Fitch FW. Evidence implicating L3T4 in class II MHC antigen reactivity; monoclonal antibody GK1.5 (anti-L3T4a) blocks class II MHC antigen-specific proliferation, release of lymphokines, and binding by cloned murine helper T lymphocyte lines. *J Immunol.* 1983 Nov;131(5):2178-83.

### Related Products

11-0193 Anti-Mouse CD19 FITC (eBio1D3 (1D3))

47-4031 Rat IgG2b K Isotype Control APC-eFluor<sup>®</sup> 780