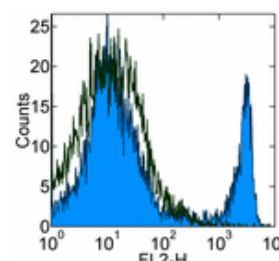


## Product Information

Contents: Biotin anti-mouse CD4 (L3T4)  
Catalog Number: 13-0041  
Sizes: 50 ug, 100 ug, 500 ug, 1 mg  
Formulation: Phosphate buffer pH 7.2,  
150 mM NaCl, 0.09% NaN<sub>3</sub>  
Storage Conditions: Store at 4°C.  
DO NOT FREEZE.  
Clone: GK1.5  
Isotype: Rat IgG2b, κ



*Staining of C57Bl/6 splenocytes with 0.125 µg of Biotin Rat IgG2b Iso Cntrl (cat. 13-4331) (open histogram) or 0.125 µg of Biotin anti-mouse CD4 (GK1.5) (colored histogram) followed by SAV-PE (cat. 12-4312). Total viable cells were used for analysis.*

## Available Formats of This Product

| Cat. No. | Format   | Excite (nm) | Emit (nm) | Reported Applications |
|----------|--|-------------|-----------|-----------------------|
| 11-0041  | FITC anti-mouse CD4 (L3T4)                       | 488         | 518       | FC                    |
| 12-0041  | PE anti-mouse CD4 (L3T4)                         | 488         | 575       | FC                    |
| 13-0041  | Biotin anti-mouse CD4 (L3T4)                     | N/A         | N/A       | FC                    |
| 14-0041  | Affinity Purified anti-mouse CD4 (L3T4)          | N/A         | N/A       | FC IH/F IP            |
| 15-0041  | PE-Cy5 anti-mouse CD4 (L3T4)                     | 488         | 670       | FC                    |
| 16-0041  | Functional Grade* Purified anti-mouse CD4 (L3T4) | N/A         | N/A       | FC                    |
| 17-0041  | APC anti-mouse CD4 (L3T4)                        | 633         | 660       | FC                    |
| 19-0041  | Cy5 anti-mouse CD4 (L3T4)                        | 633         | 670       | FC                    |
| 25-0041  | PE-Cy7 anti-mouse CD4 (L3T4)                     | 488         | 760       | FC                    |

\*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/µg.  
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

## 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.

## Usage

For research use only, not for diagnostic or therapeutic use. The GK1.5 antibody has been reported for use in flow cytometric analysis.

## Applications Tested

The GK1.5 antibody has been tested by flow cytometric analysis of mouse thymocyte and splenocyte suspensions. This can be used at less than or equal to 0.25 µg per million cells in a 100 µl total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

## Related Products

Cat. 11-0041 FITC anti-mouse CD4 (L3T4) (clone GK1.5)

Cat. 12-0041 PE anti-mouse CD4 (L3T4) (clone GK1.5)  
 Cat. 14-0041 Affinity Purified anti-mouse CD4 (L3T4) (clone GK1.5)  
 Cat. 15-0041 PE-Cy5 anti-mouse CD4 (L3T4) (clone GK1.5)  
 Cat. 16-0041 Functional Grade Purified anti-mouse CD4 (L3T4) (clone GK1.5)  
 Cat. 17-0041 APC anti-mouse CD4 (L3T4) (clone GK1.5)  
 Cat. 19-0041 Cy5 anti-mouse CD4 (L3T4) (clone GK1.5)  
 Cat. 25-0041 PE-Cy7 anti-mouse CD4 (L3T4) (clone GK1.5)  
 Cat. 10-0042 APC-Cy7 anti-mouse CD4 (clone RM4-5)  
 Cat. 11-0042 FITC anti-mouse CD4 (L3T4) (clone RM4-5)  
 Cat. 12-0042 PE anti-mouse CD4 (L3T4) (clone RM4-5)  
 Cat. 13-0042 Biotin anti-mouse CD4 (L3T4) (clone RM4-5)  
 Cat. 14-0042 Affinity Purified anti-mouse CD4 (L3T4) (clone RM4-5)  
 Cat. 15-0042 PE-Cy5 anti-mouse CD4 (L3T4) (clone RM4-5)  
 Cat. 16-0042 Functional Grade Purified anti-mouse CD4 (L3T4) (clone RM4-5)  
 Cat. 17-0042 APC anti-mouse CD4 (L3T4) (clone RM4-5)  
 Cat. 25-0042 PE-Cy7 anti-mouse CD4 (L3T4) (clone RM4-5)  
 Cat. 35-0042 PE-Cy5.5 anti-mouse CD4 (clone RM4-5)  
 Cat. 13-4031 Biotin Rat IgG2b Isotype Control (clone eB149/10H5)  
 Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)  
 Cat. 12-4317 Streptavidin-PE (Phycoerythrin)  
 Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)

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## References

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Dialynas, D. P., Z. S. Quan, et al. (1983). "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* 131(5): 2445-51.  
 Wilde, D. B., P. Marrack, et al. (1983). "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* 131(5): 2178-83.