

## Product Information

Contents: Phycoerythrin-Cy5 (PE-Cy5) anti-mouse CD4 (L3T4)

Catalog Number: 15-0041

Sizes: 50 ug, 100 ug, 200 ug

Formulation: Phosphate buffer pH 7.2,  
150 mM NaCl, 0.09% NaN<sub>3</sub>

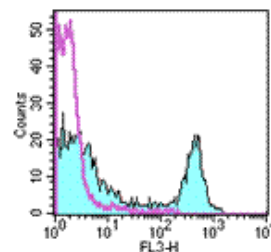
Storage Conditions: Store at 4°C.

DO NOT FREEZE.

LIGHT-SENSITIVE MATERIAL.

Clone: GK1.5

Isotype: Rat IgG2b, κ



*Staining of C57Bl/6 splenocytes with staining buffer (autofluorescence) (open histogram) or 0.03 µg of PE-Cy5 anti-mouse CD4 (GK1.5) (colored histogram). Total 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 0.06 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. 13-0041	Biotin anti-mouse CD4 (L3T4) (clone GK1.5)
Cat. 14-0041	Affinity Purified 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. 15-4031	Phycoerythrin-Cy5 (PE-Cy5) Rat IgG2b Isotype Control (clone eB149/10H5)

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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.

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