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Product Information

Contents: Fluorescein isothiocyanate (FITC) anti-mouse CD4

(L3T4)

Catalog Number: 11-0042 Sizes: 50 ug, 100 ug, 500 ug, 1 mg Formulation: Phosphate buffer pH 7.2,

150 mM NaCl, 0.09% NaN₃

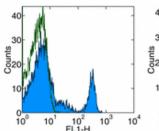
Storage Conditions: Store at 4°C.

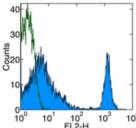
DO NOT FREEZE.

LIGHT-SENSITIVE MATERIAL.

Clone: RM4-5

Isotype: Rat IgG2a, κ





Surface staining of mouse splenocytes with anti-mouse CD4 (RM4-5) FITC (left), and PE (right). Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

Available l	Formats of This Product			
Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
10-0042	APC-Cy7 anti-mouse CD4	633	760	FC
11-0042	FITC anti-mouse CD4 (L3T4)	488	518	FC
12-0042	PE anti-mouse CD4 (L3T4)	488	575	FC
13-0042	Biotin anti-mouse CD4 (L3T4)	N/A	N/A	FC
14-0042	Affinity Purified anti-mouse CD4 (L3T4)	N/A	N/A	FA FC IHC
15-0042	PE-Cy5 anti-mouse CD4 (L3T4)	488	670	FC
16-0042	Functional Grade* Purified anti-mouse CD4 (L3T4)	N/A	N/A	FC
17-0042	APC anti-mouse CD4 (L3T4)	633	660	FC
25-0042	PE-Cy7 anti-mouse CD4 (L3T4)	488	760	FC
30-0042	Allophycocyanin-Cy5.5 (APC-Cy5.5) anti-mouse CD4 (L3T4)	633	690	FC
35-0042	PE-Cy5.5 anti-mouse CD4	488	690	FC
	PE-Cy5.5 anti-mouse CD4		690	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 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.

Usage

For research use only, not for diagnostic or therapeutic use. The RM4-5 antibody has been reported for use in flow cytometric analysis.

Applications Tested

The RM4-5 antibody has been tested by flow cytometric analysis of mouse thymocyte and splenocyte suspensions. This can be used at less than or equal to $0.25 \mu g$ per million cells in a $100 \mu l$ total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Cat. 11-0041 FITC anti-mouse CD4 (L3T4) (clone GK1.5) Cat. 12-0041 PE anti-mouse CD4 (L3T4) (clone GK1.5) Biotin anti-mouse CD4 (L3T4) (clone GK1.5) Cat. 13-0041 Affinity Purified anti-mouse CD4 (L3T4) (clone GK1.5) Cat. 14-0041 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) APC anti-mouse CD4 (L3T4) (clone GK1.5) Cat. 17-0041 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. 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) APC anti-mouse CD4 (L3T4) (clone RM4-5) Cat. 17-0042 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. 11-4321 FITC Rat IgG2a Isotype Control

References

Okumura, K. 2000. Personal communication.

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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