

# Resource Summary Report

Generated by [dkNET](#) on Jul 31, 2026

## Rat Anti-CD4 Monoclonal Antibody, Phycoerythrin Conjugated, Clone RM4-5

RRID:AB\_394585

Type: Antibody

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### Proper Citation

BD Biosciences Cat# 553049, RRID:AB\_394585

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### Antibody Information

**URL:** [http://antibodyregistry.org/AB\\_394585](http://antibodyregistry.org/AB_394585)

**Proper Citation:** BD Biosciences Cat# 553049, RRID:AB\_394585

**Target Antigen:** CD4

**Host Organism:** rat

**Clonality:** monoclonal

**Comments:** Flow cytometry

**Antibody Name:** Rat Anti-CD4 Monoclonal Antibody, Phycoerythrin Conjugated, Clone RM4-5

**Description:** This monoclonal targets CD4

**Target Organism:** mouse

**Clone ID:** RM4-5

**Antibody ID:** AB\_394585

**Vendor:** BD Biosciences

**Catalog Number:** 553049

**Record Creation Time:** 20250819T225048+0000

**Record Last Update:** 20250820T032909+0000

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### Ratings and Alerts

No rating or validation information has been found for Rat Anti-CD4 Monoclonal Antibody, Phycoerythrin Conjugated, Clone RM4-5.

No alerts have been found for Rat Anti-CD4 Monoclonal Antibody, Phycoerythrin Conjugated, Clone RM4-5.

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## Data and Source Information

**Source:** [Antibody Registry](#)

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## Usage and Citation Metrics

We found 18 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [dkNET](#) .

Dhenni R, et al. (2025) Macrophages direct location-dependent recall of B cell memory to vaccination. *Cell*, 188(13), 3477.

Yun H, et al. (2025) The production of the chemokine CCL2 by corneal sensory neurons initiates anti-viral immunity at the cornea and trigeminal ganglion. *Cell reports*, 45(1), 116693.

Weed DT, et al. (2023) The Tumor Immune Microenvironment Architecture Correlates with Risk of Recurrence in Head and Neck Squamous Cell Carcinoma. *Cancer research*, 83(23), 3886.

Abdelwahab T, et al. (2023) Cytotoxic CNS-associated T cells drive axon degeneration by targeting perturbed oligodendrocytes in PLP1 mutant mice. *iScience*, 26(5), 106698.

Le Moine M, et al. (2023) Homeostatic PD-1 signaling restrains EOMES-dependent oligoclonal expansion of liver-resident CD8 T cells. *Cell reports*, 42(8), 112876.

Wiede F, et al. (2022) PTP1B Is an Intracellular Checkpoint that Limits T-cell and CAR T-cell Antitumor Immunity. *Cancer discovery*, 12(3), 752.

Zhao JL, et al. (2022) Notch-mediated lactate metabolism regulates MDSC development through the Hes1/MCT2/c-Jun axis. *Cell reports*, 38(10), 110451.

Quast I, et al. (2022) Interleukin-21, acting beyond the immunological synapse, independently controls T follicular helper and germinal center B cells. *Immunity*, 55(8), 1414.

Giampazolias E, et al. (2021) Secreted gelsolin inhibits DNGR-1-dependent cross-presentation and cancer immunity. *Cell*, 184(15), 4016.

Matias MI, et al. (2021) Regulatory T cell differentiation is controlled by ?KG-induced alterations in mitochondrial metabolism and lipid homeostasis. *Cell reports*, 37(5), 109911.

Rustenhoven J, et al. (2021) Functional characterization of the dural sinuses as a neuroimmune interface. *Cell*, 184(4), 1000.

Boccasavia VL, et al. (2021) Antigen presentation between T cells drives Th17 polarization under conditions of limiting antigen. *Cell reports*, 34(11), 108861.

Lv K, et al. (2021) HectD1 controls hematopoietic stem cell regeneration by coordinating ribosome assembly and protein synthesis. *Cell stem cell*, 28(7), 1275.

Yamamoto K, et al. (2021) The TLR4-TRIF-type 1 IFN-IFN- $\gamma$  pathway is crucial for gastric MALT lymphoma formation after *Helicobacter suis* infection. *iScience*, 24(9), 103064.

Horkova V, et al. (2020) Dynamics of the Coreceptor-LCK Interactions during T Cell Development Shape the Self-Reactivity of Peripheral CD4 and CD8 T Cells. *Cell reports*, 30(5), 1504.

Yun H, et al. (2020) Production of the Cytokine VEGF-A by CD4<sup>+</sup> T and Myeloid Cells Disrupts the Corneal Nerve Landscape and Promotes Herpes Stromal Keratitis. *Immunity*, 53(5), 1050.

Bieniasz-Krzywiec P, et al. (2019) Podoplanin-Expressing Macrophages Promote Lymphangiogenesis and Lymphoinvasion in Breast Cancer. *Cell metabolism*, 30(5), 917.

Cong J, et al. (2018) Dysfunction of Natural Killer Cells by FBP1-Induced Inhibition of Glycolysis during Lung Cancer Progression. *Cell metabolism*, 28(2), 243.