

# Resource Summary Report

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## CD4 Monoclonal Antibody (RM4-5), Alexa Fluor™ 700, eBioscience

RRID:AB\_494000

Type: Antibody

### Proper Citation

(Thermo Fisher Scientific Cat# 56-0042-82, RRID:AB\_494000)

### Antibody Information

**URL:** [http://antibodyregistry.org/AB\\_494000](http://antibodyregistry.org/AB_494000)

**Proper Citation:** (Thermo Fisher Scientific Cat# 56-0042-82, RRID:AB\_494000)

**Target Antigen:** CD4

**Host Organism:** rat

**Clonality:** monoclonal

**Comments:** Applications: Flow

**Antibody Name:** CD4 Monoclonal Antibody (RM4-5), Alexa Fluor™ 700, eBioscience

**Description:** This monoclonal targets CD4

**Target Organism:** mouse

**Clone ID:** Clone RM4-5

**Defining Citation:** [PMID:16757567](#), [PMID:16636131](#), [PMID:17548634](#)

**Antibody ID:** AB\_494000

**Vendor:** Thermo Fisher Scientific

**Catalog Number:** 56-0042-82

**Alternative Catalog Numbers:** 56-0042

**Record Creation Time:** 20251213T073257+0000

**Record Last Update:** 20260225T230420+0000

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## Ratings and Alerts

No rating or validation information has been found for CD4 Monoclonal Antibody (RM4-5), Alexa Fluor™ 700, eBioscience.

No alerts have been found for CD4 Monoclonal Antibody (RM4-5), Alexa Fluor™ 700, eBioscience.

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## Data and Source Information

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

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## Usage and Citation Metrics

We found 24 mentions in open access literature.

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

Nabi R, et al. (2026) Both soluble and cell surface CD137 expressed by Foxp3+ CD4 T cells restrain autoimmune diabetes. The Journal of experimental medicine, 223(8).

Li S, et al. (2025) Protocol for multiplex immunofluorescence imaging of mouse intestinal tumors. STAR protocols, 6(2), 103776.

Rennen S, et al. (2025) Lipid nanoparticles as a tool to dissect dendritic cell maturation pathways. Cell reports, 44(8), 116150.

Cao Z, et al. (2025) Interferon- $\gamma$ -stimulated antigen-presenting cancer-associated fibroblasts hinder neoadjuvant chemoimmunotherapy efficacy in lung cancer. Cell reports. Medicine, 6(3), 102017.

Ciecko AE, et al. (2025) An interleukin-27-centered cytokine circuit regulates macrophage and T cell interactions in autoimmune diabetes. iScience, 28(10), 113537.

Hesser LA, et al. (2024) A synbiotic of Anaerostipes caccae and lactulose prevents and treats food allergy in mice. Cell host & microbe, 32(7), 1163.

Patterson MT, et al. (2023) Tumor-specific CD4 T cells instruct monocyte fate in pancreatic ductal adenocarcinoma. Cell reports, 42(7), 112732.

Enamorado M, et al. (2023) Immunity to the microbiota promotes sensory neuron regeneration. Cell, 186(3), 607.

Becker M, et al. (2023) Regulatory T cells require IL6 receptor alpha signaling to control skeletal muscle function and regeneration. Cell metabolism, 35(10), 1736.

Kim E, et al. (2022) Maternal gut bacteria drive intestinal inflammation in offspring with neurodevelopmental disorders by altering the chromatin landscape of CD4+ T cells. Immunity, 55(1), 145.

Nanou A, et al. (2021) Endothelial Tpl2 regulates vascular barrier function via JNK-mediated degradation of claudin-5 promoting neuroinflammation or tumor metastasis. *Cell reports*, 35(8), 109168.

Huang X, et al. (2021) Murine model of colonization with fungal pathogen *Candida auris* to explore skin tropism, host risk factors and therapeutic strategies. *Cell host & microbe*, 29(2), 210.

Sano T, et al. (2021) Redundant cytokine requirement for intestinal microbiota-induced Th17 cell differentiation in draining lymph nodes. *Cell reports*, 36(8), 109608.

Lima-Junior DS, et al. (2021) Endogenous retroviruses promote homeostatic and inflammatory responses to the microbiota. *Cell*, 184(14), 3794.

Gern BH, et al. (2021) TGF $\beta$  restricts expansion, survival, and function of T cells within the tuberculous granuloma. *Cell host & microbe*, 29(4), 594.

Brenes AJ, et al. (2021) Tissue environment, not ontogeny, defines murine intestinal intraepithelial T lymphocytes. *eLife*, 10.

Loo CS, et al. (2020) A Genome-wide CRISPR Screen Reveals a Role for the Non-canonical Nucleosome-Remodeling BAF Complex in Foxp3 Expression and Regulatory T Cell Function. *Immunity*, 53(1), 143.

Ciecko AE, et al. (2019) Interleukin-27 Is Essential for Type 1 Diabetes Development and Sjögren Syndrome-like Inflammation. *Cell reports*, 29(10), 3073.

Koliaraki V, et al. (2019) Innate Sensing through Mesenchymal TLR4/MyD88 Signals Promotes Spontaneous Intestinal Tumorigenesis. *Cell reports*, 26(3), 536.

Booth CAG, et al. (2018) Ezh2 and Runx1 Mutations Collaborate to Initiate Lympho-Myeloid Leukemia in Early Thymic Progenitors. *Cancer cell*, 33(2), 274.