

Resource Summary Report

Generated by [nidm-terms](#) on Aug 16, 2026

B6.129S2-Cd4^{tm1Mak}/J

RRID:IMSR_JAX:002663

Type: Organism

Proper Citation

RRID:IMSR_JAX:002663

Organism Information

URL: <https://www.jax.org/strain/002663>

Proper Citation: RRID:IMSR_JAX:002663

Description: Mus musculus with name B6.129S2-Cd4^{tm1Mak}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: CD4 antigen; mutant strain|congenic strain: Cd4

Affected Gene: CD4 antigen

Genomic Alteration: targeted mutation 1; Tak Mak

Catalog Number: JAX:002663

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S2-Cd4^{tm1Mak}/J

Record Creation Time: 20250513T053633+0000

Record Last Update: 20260815T050544+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S2-Cd4^{tm1Mak}/J.

No alerts have been found for B6.129S2-Cd4^{tm1Mak}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 51 mentions in open access literature.

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

Garg SK, et al. (2026) Potentiating dendritic cell immunotherapy by interrupting the Semaphorin 4D-induced immune-suppressive barrier. *Cell reports*, 45(3), 117050.

Fan H, et al. (2026) Maternal trans-vaccenic acid shapes neonatal T cell development and early-life immune imprinting. *Science (New York, N.Y.)*, 392(6804), eaea4041.

van der Heide V, et al. (2025) Prolonged but finite antigen presentation promotes reversible defects of "helpless" memory CD8+ T cells. *Immunity*, 58(7), 1742.

Schiele P, et al. (2025) CD8+ T cell-derived CD40L mediates noncanonical cytotoxicity in CD40-expressing cancer cells. *Science advances*, 11(21), eadr9331.

Wolf SP, et al. (2024) One CD4+TCR and One CD8+TCR Targeting Autochthonous Neoantigens Are Essential and Sufficient for Tumor Eradication. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 30(8), 1642.

Mahadevan KK, et al. (2024) Type I conventional dendritic cells facilitate immunotherapy in pancreatic cancer. *Science (New York, N.Y.)*, 384(6703), eadh4567.

Cordeiro B, et al. (2024) Obesity intensifies sex-specific interferon signaling to selectively worsen central nervous system autoimmunity in females. *Cell metabolism*, 36(10), 2298.

Santiago-Carvalho I, et al. (2023) T cell-specific P2RX7 favors lung parenchymal CD4+ T cell accumulation in response to severe lung infections. *Cell reports*, 42(11), 113448.

Ravindranathan S, et al. (2022) Targeting vasoactive intestinal peptide-mediated signaling enhances response to immune checkpoint therapy in pancreatic ductal adenocarcinoma. *Nature communications*, 13(1), 6418.

Toumi R, et al. (2022) Autocrine and paracrine IL-2 signals collaborate to regulate distinct phases of CD8 T cell memory. *Cell reports*, 39(2), 110632.

Zheng N, et al. (2022) Induction of tumor cell autosis by myxoma virus-infected CAR-T and TCR-T cells to overcome primary and acquired resistance. *Cancer cell*, 40(9), 973.

Wang N, et al. (2022) Mapping brain gene coexpression in daytime transcriptomes unveils diurnal molecular networks and deciphers perturbation gene signatures. *Neuron*, 110(20), 3318.

Costa-Verdera H, et al. (2021) Hepatic expression of GAA results in enhanced enzyme bioavailability in mice and non-human primates. *Nature communications*, 12(1), 6393.

Zbesko JC, et al. (2021) IgA natural antibodies are produced following T-cell independent B-cell activation following stroke. *Brain, behavior, and immunity*, 91, 578.

Mochizuki K, et al. (2021) Alloantigen-activated (AAA) CD4+ T cells reinvigorate host endogenous T cell immunity to eliminate pre-established tumors in mice. *Journal of experimental & clinical cancer research : CR*, 40(1), 314.

Williams GP, et al. (2021) CD4 T cells mediate brain inflammation and neurodegeneration in a mouse model of Parkinson's disease. *Brain : a journal of neurology*, 144(7), 2047.

Errington TM, et al. (2021) Experiments from unfinished Registered Reports in the Reproducibility Project: Cancer Biology. *eLife*, 10.

Xu W, et al. (2021) Early innate and adaptive immune perturbations determine long-term severity of chronic virus and *Mycobacterium tuberculosis* coinfection. *Immunity*, 54(3), 526.

Taylor MD, et al. (2020) CD4 and CD8 T Cell Memory Interactions Alter Innate Immunity and Organ Injury in the CLP Sepsis Model. *Frontiers in immunology*, 11, 563402.

Bickett TE, et al. (2020) Characterizing the BCG Induced Macrophage and Neutrophil Mechanisms for Defense Against *Mycobacterium tuberculosis*. *Frontiers in immunology*, 11, 1202.