

Resource Summary Report

Generated by [NIF](#) on Sep 13, 2026

C.129-II4^{tm1Lky}/J

RRID:IMSR_JAX:004190

Type: Organism

Proper Citation

RRID:IMSR_JAX:004190

Organism Information

URL: <https://www.jax.org/strain/004190>

Proper Citation: RRID:IMSR_JAX:004190

Description: Mus musculus with name C.129-II4^{tm1Lky}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: |interleukin 4; mutant strain|congenic strain: |II4

Affected Gene: |interleukin 4

Genomic Alteration: targeted mutation 1; Richard M Locksley

Catalog Number: JAX:004190

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: C.129-II4^{tm1Lky}/J

Record Creation Time: 20250513T053643+0000

Record Last Update: 20260912T060427+0000

Ratings and Alerts

No rating or validation information has been found for C.129-II4^{tm1Lky}/J.

No alerts have been found for C.129-II4^{tm1Lky}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 15 mentions in open access literature.

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

Ruta A, et al. (2026) Tissue Injury and Biomaterial Treatment Modulate Tumor Growth and Response to Immunotherapy. bioRxiv : the preprint server for biology.

Lee D, et al. (2026) Interleukin-4-producing type 2 innate lymphoid cells in the lymph node promote proallergic Tfh13 cell differentiation. Immunity, 59(7), 1860.

Nelson AJ, et al. (2025) Lung-resident memory B cells maintain allergic IgE responses in the respiratory tract. Immunity, 58(4), 875.

Patel PS, et al. (2022) Translational regulation of TFH cell differentiation and autoimmune pathogenesis. Science advances, 8(25), eabo1782.

Chen Q, et al. (2022) Development of allergen-specific IgE in a food-allergy model requires precisely timed B cell stimulation and is inhibited by Fgl2. Cell reports, 39(13), 110990.

Gregoire C, et al. (2022) Viral infection engenders bona fide and bystander subsets of lung-resident memory B cells through a permissive mechanism. Immunity, 55(7), 1216.

Ataide MA, et al. (2022) Lymphatic migration of unconventional T??cells promotes site-specific immunity in distinct lymph nodes. Immunity, 55(10), 1813.

Kaur K, et al. (2021) GM-CSF production by non-classical monocytes controls antagonistic LPS-driven functions in allergic inflammation. Cell reports, 37(13), 110178.

Yao M, et al. (2020) Astrocytic trans-Differentiation Completes a Multicellular Paracrine Feedback Loop Required for Medulloblastoma Tumor Growth. Cell, 180(3), 502.

Lin JS, et al. (2019) Virtual memory CD8 T cells expanded by helminth infection confer broad protection against bacterial infection. Mucosal immunology, 12(1), 258.

Soloviova K, et al. (2019) A secreted schistosome cathepsin B1 cysteine protease and acute schistosome infection induce a transient T helper 17 response. PLoS neglected tropical diseases, 13(1), e0007070.

Fairfax KC, et al. (2012) IL-10R blockade during chronic schistosomiasis mansoni results in the loss of B cells from the liver and the development of severe pulmonary disease. PLoS pathogens, 8(1), e1002490.

Perona-Wright G, et al. (2010) Sustained signaling by canonical helper T cell cytokines throughout the reactive lymph node. *Nature immunology*, 11(6), 520.

Glatman Zaretsky A, et al. (2009) T follicular helper cells differentiate from Th2 cells in response to helminth antigens. *The Journal of experimental medicine*, 206(5), 991.

Clay BS, et al. (2009) Inducible costimulator expression regulates the magnitude of Th2-mediated airway inflammation by regulating the number of Th2 cells. *PloS one*, 4(11), e7525.