

Resource Summary Report

Generated by T1D on Sep 22, 2026

B6.129X1-H2-Ab1^{b-tm1Koni}/J

RRID:IMSR_JAX:013181

Type: Organism

Proper Citation

RRID:IMSR_JAX:013181

Organism Information

URL: <https://www.jax.org/strain/013181>

Proper Citation: RRID:IMSR_JAX:013181

Description: Mus musculus with name B6.129X1-H2-Ab1^{b-tm1Koni}/J from IMSR.

Species: Mus musculus

Synonyms: B6.129X1-H2-Ab1/J

Notes: gene symbol note: histocompatibility 2; class II antigen A; beta 1; mutant strain|congenic strain: H2-Ab1

Affected Gene: histocompatibility 2; class II antigen A; beta 1

Genomic Alteration: targeted mutation 1; Pandelakis A Koni

Catalog Number: JAX:013181

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129X1-H2-Ab1^{b-tm1Koni}/J

Record Creation Time: 20250513T053724+0000

Record Last Update: 20260919T054912+0000

Ratings and Alerts

No rating or validation information has been found for B6.129X1-H2-Ab1^{b-tm1Koni}/J.

No alerts have been found for B6.129X1-H2-Ab1^{b-tm1Koni}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 28 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

Blum JE, et al. (2026) Identification and characterization of dietary antigens in oral tolerance. *Science immunology*, 11(117), eaeb4684.

Schmiechen ZC, et al. (2026) Treg cells promote immunotherapy-induced immune evasion by restraining CD4 T cell control of MHC-I-deficient metastatic pancreatic cancer. *Science immunology*, 11(120), eadz4302.

Zhou YD, et al. (2025) T cell fate is dictated by different antigen presenting cells in response to dietary versus gut epithelial self-antigen. *bioRxiv : the preprint server for biology*.

Fachi JL, et al. (2025) Fiber- and acetate-mediated modulation of MHC-II expression on intestinal epithelium protects from *Clostridioides difficile* infection. *Cell host & microbe*, 33(2), 235.

Tatsumi N, et al. (2025) CD301b⁺ dendritic cell-derived IL-2 dictates CD4⁺ T helper cell differentiation. *Nature communications*, 16(1), 2002.

Ravi VR, et al. (2025) Lung CD4⁺ resident memory T cells use airway secretory cells to stimulate and regulate onset of allergic airway neutrophilic disease. *Cell reports*, 44(3), 115294.

Haniuda K, et al. (2025) Mucosal viral infection elicits long-lived IgA responses via type 1 follicular helper T cells. *Cell*, 188(24), 6774.

Rodriguez-Marino N, et al. (2024) Dietary fiber promotes antigen presentation on intestinal epithelial cells and development of small intestinal CD4⁺CD8^{??}⁺ intraepithelial T cells. *Mucosal immunology*.

Luan J, et al. (2024) CD80 on skin stem cells promotes local expansion of regulatory T cells upon injury to orchestrate repair within an inflammatory environment. *Immunity*, 57(5), 1071.

Rodrigues PF, et al. (2024) Progenitors of distinct lineages shape the diversity of mature type 2 conventional dendritic cells. *Immunity*, 57(7), 1567.

Schonhoff AM, et al. (2023) Border-associated macrophages mediate the neuroinflammatory response in an alpha-synuclein model of Parkinson disease. *Nature communications*, 14(1), 3754.

Ahmadi F, et al. (2023) cDC1-derived IL-27 regulates small intestinal CD4⁺ T cell homeostasis in mice. *The Journal of experimental medicine*, 220(3).

van den Broek T, et al. (2023) Invasion of spontaneous germinal centers by naive B cells is rapid and persistent. *bioRxiv : the preprint server for biology*.

He K, et al. (2023) Gasdermin D licenses MHCII induction to maintain food tolerance in small intestine. *Cell*, 186(14), 3033.

Harbour JC, et al. (2023) T helper 1 effector memory CD4⁺ T cells protect the skin from poxvirus infection. *Cell reports*, 42(5), 112407.

Kerdidani D, et al. (2022) Lung tumor MHCII immunity depends on in situ antigen presentation by fibroblasts. *The Journal of experimental medicine*, 219(2).

Porsche CE, et al. (2021) Obesity results in adipose tissue T cell exhaustion. *JCI insight*, 6(8).

Shenoy AT, et al. (2021) Antigen presentation by lung epithelial cells directs CD4⁺ TRM cell function and regulates barrier immunity. *Nature communications*, 12(1), 5834.

Toulmin SA, et al. (2021) Type II alveolar cell MHCII improves respiratory viral disease outcomes while exhibiting limited antigen presentation. *Nature communications*, 12(1), 3993.

Chow AK, et al. (2021) Enteric Glia Regulate Lymphocyte Activation via Autophagy-Mediated MHC-II Expression. *Cellular and molecular gastroenterology and hepatology*, 12(4), 1215.