Resource Summary Report

Generated by NIF on Sep 12, 2026

B6.129-Ido1^{tm1Alm}/J

RRID:IMSR_JAX:005867
Type: Organism

Proper Citation

RRID:IMSR_JAX:005867

Organism Information

URL: https://www.jax.org/strain/005867

Proper Citation: RRID:IMSR_JAX:005867

Description: Mus musculus with name B6.129-Ido1^{tm1Alm}/J from IMSR.

Species: Mus musculus

Synonyms: B6.129-Indo/J

Notes: gene symbol note: indoleamine 2;3-dioxygenase 1; mutant strain|congenic strain: Ido1

Affected Gene: indoleamine 2;3-dioxygenase 1

Genomic Alteration: targeted mutation 1; Andrew L Mellor

Catalog Number: JAX:005867

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129-Ido1^{tm1Alm}/J

Record Creation Time: 20250513T053653+0000

Record Last Update: 20260905T044436+0000

Ratings and Alerts

No rating or validation information has been found for B6.129-Ido1^{tm1Alm}/J.

No alerts have been found for B6.129-Ido1^{tm1Alm}/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 17 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF .

Umeda R, et al. (2025) Investigation of the Impact of Tryptophan-Metabolizing Enzymes and Kynurenic Acid on Antibody-Mediated Glomerulonephritis. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 39(18), e71076.

Huang T, et al. (2022) Adipocyte-derived kynurenine promotes obesity and insulin resistance by activating the AhR/STAT3/IL-6 signaling. Nature communications, 13(1), 3489.

Gargaro M, et al. (2022) Indoleamine 2,3-dioxygenase 1 activation in mature cDC1 promotes tolerogenic education of inflammatory cDC2 via metabolic communication. Immunity, 55(6), 1032.

Ju JM, et al. (2021) IDO1 scavenges reactive oxygen species in myeloid-derived suppressor cells to prevent graft-versus-host disease. Proceedings of the National Academy of Sciences of the United States of America, 118(10).

Zhai L, et al. (2021) Tumor Cell IDO Enhances Immune Suppression and Decreases Survival Independent of Tryptophan Metabolism in Glioblastoma. Clinical cancer research : an official journal of the American Association for Cancer Research, 27(23), 6514.

Torosyan R, et al. (2021) Hypoxic preconditioning protects against ischemic kidney injury through the IDO1/kynurenine pathway. Cell reports, 36(7), 109547.

Lightman SM, et al. (2021) Indoleamine 2,3-dioxygenase 1 is essential for sustaining durable antibody responses. Immunity, 54(12), 2772.

Sharma MD, et al. (2021) Inhibition of the BTK-IDO-mTOR axis promotes differentiation of monocyte-lineage dendritic cells and enhances anti-tumor T cell immunity. Immunity, 54(10), 2354.

Lissner MM, et al. (2020) Metabolic profiling during malaria reveals the role of the aryl hydrocarbon receptor in regulating kidney injury. eLife, 9.

Zeng T, et al. (2020) Indoleamine 2, 3-dioxygenase 1enhanceshepatocytes ferroptosis in acute immune hepatitis associated with excess nitrative stress. Free radical biology & medicine, 152, 668.

Ufermann CM, et al. (2019) Indoleamine 2,3-Dioxygenase Activity During Acute Toxoplasmosis and the Suppressed T Cell Proliferation in Mice. Frontiers in cellular and infection microbiology, 9, 184.

Zhao F, et al. (2018) Paracrine Wnt5a-?-Catenin Signaling Triggers a Metabolic Program that Drives Dendritic Cell Tolerization. Immunity, 48(1), 147.

Lanz TV, et al. (2017) Tryptophan-2,3-Dioxygenase (TDO) deficiency is associated with subclinical neuroprotection in a mouse model of multiple sclerosis. Scientific reports, 7, 41271.

Donley DW, et al. (2016) Huntingtons Disease Mice Infected with Toxoplasma gondii Demonstrate Early Kynurenine Pathway Activation, Altered CD8+ T-Cell Responses, and Premature Mortality. PloS one, 11(9), e0162404.

Cheung MB, et al. (2016) Respiratory Syncytial Virus-Infected Mesenchymal Stem Cells Regulate Immunity via Interferon Beta and Indoleamine-2,3-Dioxygenase. PloS one, 11(10), e0163709.

Li M, et al. (2014) The indoleamine 2,3-dioxygenase pathway controls complement-dependent enhancement of chemo-radiation therapy against murine glioblastoma. Journal for immunotherapy of cancer, 2, 21.

Aevermann BD, et al. (2014) A comprehensive collection of systems biology data characterizing the host response to viral infection. Scientific data, 1, 140033.