Resource Summary Report

Generated by FDI Lab - SciCrunch.org on May 27, 2025

MRL/MpJ-Fas^{lpr}/J

RRID:IMSR_JAX:000485
Type: Organism

Proper Citation

RRID:IMSR_JAX:000485

Organism Information

URL: https://www.jax.org/strain/000485

Proper Citation: RRID:IMSR_JAX:000485

Description: Mus musculus with name MRL/MpJ-Fas^{lpr}/J from IMSR.

Species: Mus musculus

Synonyms: MRL/MpJ-Tnfrsf6/J

Notes: gene symbol note: Fas cell surface death receptor; mutant strain: Fas

Affected Gene: Fas cell surface death receptor

Genomic Alteration: lymphoproliferation

Catalog Number: JAX:000485

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: MRL/MpJ-Fas^{lpr}/J

Record Creation Time: 20250513T053618+0000

Record Last Update: 20250524T090336+0000

Ratings and Alerts

No rating or validation information has been found for MRL/MpJ-Fas^{lpr}/J.

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human type 1 diabetes mellitus.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 62 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Yamaguchi J, et al. (2024) PIK3CA inhibition in models of proliferative glomerulonephritis and lupus nephritis. The Journal of clinical investigation, 134(15).

Pan W, et al. (2024) The PP2A regulatory subunit PPP2R2A controls NAD+ biosynthesis to regulate T cell subset differentiation in systemic autoimmunity. Cell reports, 43(7), 114379.

Fu JY, et al. (2024) Lysine acetyltransferase 6A maintains CD4+ T cell response via epigenetic reprogramming of glucose metabolism in autoimmunity. Cell metabolism, 36(3), 557.

Qian B, et al. (2024) Podocyte SIRP? reduction aggravates lupus nephritis via promoting T cell inflammatory responses. Cell reports, 43(5), 114249.

Hodgson R, et al. (2023) Prolidase Deficiency Causes Spontaneous T Cell Activation and Lupus-like Autoimmunity. Journal of immunology (Baltimore, Md. : 1950), 210(5), 547.

Little AJ, et al. (2023) HIF-1 regulates pathogenic cytotoxic T cells in lupus skin disease. JCI insight, 8(16).

Gon Y, et al. (2023) Increased number of T cells and exacerbated inflammatory pathophysiology in a human IgG4 knock-in MRL/lpr mouse model. PloS one, 18(2), e0279389.

Mok MY, et al. (2023) IL-33 ameliorates murine systemic lupus erythematosus and is associated with induction of M2 macrophage polarisation and regulatory T cells. Journal of innate immunity, 15(1), 485.

Ma K, et al. (2023) B1-cell-produced anti-phosphatidylserine antibodies contribute to lupus nephritis development via TLR-mediated Syk activation. Cellular & molecular immunology, 20(8), 881.

Wu Y, et al. (2023) Osteoclast-derived apoptotic bodies inhibit naive CD8+ T cell activation via Siglec15, promoting breast cancer secondary metastasis. Cell reports. Medicine, 4(9), 101165.

Sundberg JP, et al. (2022) Witch Nails (Krt90whnl): A spontaneous mouse mutation affecting nail growth and development. PloS one, 17(11), e0277284.

Levack RC, et al. (2022) Adenosine receptor 2a agonists target mouse CD11c+T-bet+ B cells in infection and autoimmunity. Nature communications, 13(1), 452.

Kasselman LJ, et al. (2022) Cognitive changes mediated by adenosine receptor blockade in a resveratrol-treated atherosclerosis-prone lupus mouse model. Journal of traditional and complementary medicine, 12(5), 447.

Zacks DN, et al. (2022) Cell Death in AMD: The Rationale for Targeting Fas. Journal of clinical medicine, 11(3).

Rizzello C, et al. (2022) Intracellular osteopontin protects from autoimmunity-driven lymphoma development inhibiting TLR9-MYD88-STAT3 signaling. Molecular cancer, 21(1), 215.

Chen XC, et al. (2022) Metformin improves renal injury of MRL/lpr lupus-prone mice via the AMPK/STAT3 pathway. Lupus science & medicine, 9(1).

Miao X, et al. (2022) CircRTN4 aggravates mesangial cell dysfunction by activating the miR-513a-5p/FN axis in lupus nephritis. Laboratory investigation; a journal of technical methods and pathology, 102(9), 966.

Olson LB, et al. (2022) Mixed-surface polyamidoamine polymer variants retain nucleic acid-scavenger ability with reduced toxicity. iScience, 25(12), 105542.

Shou Y, et al. (2021) Redefining the Role of Lymphotoxin Beta Receptor in the Maintenance of Lymphoid Organs and Immune Cell Homeostasis in Adulthood. Frontiers in immunology, 12, 712632.

Liu L, et al. (2021) Circulating CD138 enhances disease progression by augmenting autoreactive antibody production in a mouse model of systemic lupus erythematosus. The Journal of biological chemistry, 297(3), 101053.