

Resource Summary Report

Generated by SPARC SAWG on Jul 29, 2026

B6.MRL-Fas^{lpr}/J

RRID:IMSR_JAX:000482

Type: Organism

Proper Citation

RRID:IMSR_JAX:000482

Organism Information

URL: <https://www.jax.org/strain/000482>

Proper Citation: RRID:IMSR_JAX:000482

Description: Mus musculus with name B6.MRL-Fas^{lpr}/J from IMSR.

Species: Mus musculus

Synonyms: B6.MRL-Tnfrsf6/J

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

Affected Gene: Fas cell surface death receptor

Genomic Alteration: lymphoproliferation

Catalog Number: JAX:000482

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.MRL-Fas^{lpr}/J

Record Creation Time: 20250513T053618+0000

Record Last Update: 20260725T044327+0000

Ratings and Alerts

No rating or validation information has been found for B6.MRL-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 59 mentions in open access literature.

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

Magri Z, et al. (2024) CD14 is a decision-maker between Fas-mediated death and inflammation. Cell reports, 43(9), 114685.

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.

Tsao YP, et al. (2023) NLRP12 is an innate immune checkpoint for repressing IFN signatures and attenuating lupus nephritis progression. The Journal of clinical investigation, 133(3).

Bin S, et al. (2023) Endogenous erythropoietin has immunoregulatory functions that limit the expression of autoimmune kidney disease in mice. Frontiers in immunology, 14, 1195662.

Lorenz G, et al. (2022) GDF15 Suppresses Lymphoproliferation and Humoral Autoimmunity in a Murine Model of Systemic Lupus Erythematosus. Journal of innate immunity, 14(6), 673.

Iberg CA, et al. (2022) TNF- α sculpts a maturation process in vivo by pruning tolerogenic dendritic cells. Cell reports, 39(2), 110657.

Yao G, et al. (2022) Mesenchymal stem cell transplantation alleviated atherosclerosis in systemic lupus erythematosus through reducing MDSCs. Stem cell research & therapy, 13(1), 328.

Scherlinger M, et al. (2022) Phosphofructokinase P fine-tunes T regulatory cell metabolism, function, and stability in systemic autoimmunity. Science advances, 8(48), eadc9657.

Morita M, et al. (2022) Reduction of Cell Surface T-Cell Receptor by Non-Mitogenic CD3 Antibody to Mitigate Murine Lupus. Frontiers in immunology, 13, 855812.

Dai R, et al. (2022) EGR2 Deletion Suppresses Anti-DsDNA Autoantibody and IL-17 Production in Autoimmune-Prone B6/lpr Mice: A Differential Immune Regulatory Role of EGR2 in B6/lpr Versus Normal B6 Mice. Frontiers in immunology, 13, 917866.

- Razzaghi R, et al. (2021) Compromised counterselection by FAS creates an aggressive subtype of germinal center lymphoma. *The Journal of experimental medicine*, 218(3).
- Flores-Mendoza G, et al. (2021) Fas/FasL Signaling Regulates CD8 Expression During Exposure to Self-Antigens. *Frontiers in immunology*, 12, 635862.
- Wang H, et al. (2021) D-mannose ameliorates autoimmune phenotypes in mouse models of lupus. *BMC immunology*, 22(1), 1.
- Pérez-Lara JC, et al. (2021) CD38 Correlates with an Immunosuppressive Treg Phenotype in Lupus-Prone Mice. *International journal of molecular sciences*, 22(21).
- Wang P, et al. (2021) Dephosphorylation of Caveolin-1 Controls C-X-C Motif Chemokine Ligand 10 Secretion in Mesenchymal Stem Cells to Regulate the Process of Wound Healing. *Frontiers in cell and developmental biology*, 9, 725630.
- Hiramatsu-Asano S, et al. (2020) Deletion of Mir223 Exacerbates Lupus Nephritis by Targeting S1pr1 in Fas^{lpr/lpr} Mice. *Frontiers in immunology*, 11, 616141.
- Chu CF, et al. (2020) Examination of Fas-Induced Apoptosis of Murine Thymocytes in Thymic Tissue Slices Reveals That Fas Is Dispensable for Negative Selection. *Frontiers in cell and developmental biology*, 8, 586807.
- Li D, et al. (2020) *Bacteroides fragilis* alleviates the symptoms of lupus nephritis via regulating CD1d and CD86 expressions in B cells. *European journal of pharmacology*, 884, 173421.
- Jain A, et al. (2020) T cells instruct myeloid cells to produce inflammasome-independent IL-1 β and cause autoimmunity. *Nature immunology*, 21(1), 65.
- Dai R, et al. (2020) EGR2 is elevated and positively regulates inflammatory IFN γ production in lupus CD4⁺ T cells. *BMC immunology*, 21(1), 41.