

Resource Summary Report

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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: 20260801T050323+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 [NIF](#) .

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.