

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 11, 2026

B6.129S1-Stat3^{tm1Xyfu/J}

RRID:IMSR_JAX:016923

Type: Organism

Proper Citation

RRID:IMSR_JAX:016923

Organism Information

URL: <https://www.jax.org/strain/016923>

Proper Citation: RRID:IMSR_JAX:016923

Description: Mus musculus with name B6.129S1-Stat3^{tm1Xyfu/J} from IMSR.

Species: Mus musculus

Notes: gene symbol note: signal transducer and activator of transcription 3; mutant strain|congenic strain: Stat3

Affected Gene: signal transducer and activator of transcription 3

Genomic Alteration: targeted mutation 1; Xin-Yuan Fu

Catalog Number: JAX:016923

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S1-Stat3^{tm1Xyfu/J}

Record Creation Time: 20250513T053731+0000

Record Last Update: 20260808T050935+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S1-Stat3^{tm1Xyfu/J}.

No alerts have been found for B6.129S1-Stat3^{tm1Xyfu/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 61 mentions in open access literature.

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

Srinivasan T, et al. (2026) The gut microbiota directs vitamin A flux to regulate intestinal T cell development. Cell host & microbe.

Mears KS, et al. (2025) Therapeutic activation of IL-22-producing innate lymphoid cells enhances host defenses to Clostridioides difficile infection. Cell reports, 44(4), 115438.

Kim Y, et al. (2025) IL-21 shapes the B cell response in a context-dependent manner. Cell reports, 44(1), 115190.

Sun JY, et al. (2023) An IL-6/STAT3/MR/FGF21 axis mediates heart-liver cross-talk after myocardial infarction. Science advances, 9(14), eade4110.

Sproule TJ, et al. (2023) Seven naturally variant loci serve as genetic modifiers of Lamc2jeb induced non-Herlitz junctional Epidermolysis Bullosa in mice. PloS one, 18(7), e0288263.

Hogan CH, et al. (2023) B cell-intrinsic STAT3-mediated support of latency and interferon suppression during murine gammaherpesvirus 68 infection revealed through an in vivo competition model. bioRxiv : the preprint server for biology.

Liu S, et al. (2023) A tissue injury sensing and repair pathway distinct from host pathogen defense. Cell, 186(10), 2127.

Huseni MA, et al. (2023) CD8+ T cell-intrinsic IL-6 signaling promotes resistance to anti-PD-L1 immunotherapy. Cell reports. Medicine, 4(1), 100878.

Luan D, et al. (2023) Adipocyte-Secreted IL-6 Sensitizes Macrophages to IL-4 Signaling. Diabetes, 72(3), 367.

Wang X, et al. (2023) Driving axon regeneration by orchestrating neuronal and non-neuronal innate immune responses via the IFN γ -cGAS-STING axis. Neuron, 111(2), 236.

Fike AJ, et al. (2023) STAT3 signaling in B cells controls germinal center zone organization and recycling. Cell reports, 42(5), 112512.

Chiang HY, et al. (2022) IL-22 initiates an IL-18-dependent epithelial response circuit to enforce intestinal host defence. Nature communications, 13(1), 874.

Liang X, et al. (2022) Phosphatidylserine released from apoptotic cells in tumor induces M2-like macrophage polarization through the PSR-STAT3-JMJD3 axis. *Cancer communications (London, England)*, 42(3), 205.

Zhong Y, et al. (2022) JAK2/STAT3 Axis Intermediates Microglia/Macrophage Polarization During Cerebral Ischemia/Reperfusion Injury. *Neuroscience*, 496, 119.

Wight AE, et al. (2022) Antibody-mediated blockade of the IL23 receptor destabilizes intratumoral regulatory T cells and enhances immunotherapy. *Proceedings of the National Academy of Sciences of the United States of America*, 119(18), e2200757119.

Yang D, et al. (2022) SENP1 Protects Against Pressure Overload-Induced Cardiac Remodeling and Dysfunction Via Inhibiting STAT3 Signaling. *Journal of the American Heart Association*, 11(22), e027004.

Zheng ZV, et al. (2022) Novel role of STAT3 in microglia-dependent neuroinflammation after experimental subarachnoid haemorrhage. *Stroke and vascular neurology*, 7(1), 62.

Hasebe R, et al. (2022) ATP spreads inflammation to other limbs through crosstalk between sensory neurons and interneurons. *The Journal of experimental medicine*, 219(6).

Ajay AK, et al. (2022) Deletion of STAT3 from Foxd1 cell population protects mice from kidney fibrosis by inhibiting pericytes trans-differentiation and migration. *Cell reports*, 38(10), 110473.

Zhu Y, et al. (2021) Fungal-induced glycolysis in macrophages promotes colon cancer by enhancing innate lymphoid cell secretion of IL-22. *The EMBO journal*, 40(11), e105320.