

Resource Summary Report

Generated by [kravitz2](#) on Sep 20, 2026

B6.129S7-Cd47^{tm1Fpl/J}

RRID:IMSR_JAX:003173

Type: Organism

Proper Citation

RRID:IMSR_JAX:003173

Organism Information

URL: <https://www.jax.org/strain/003173>

Proper Citation: RRID:IMSR_JAX:003173

Description: Mus musculus with name B6.129S7-Cd47^{tm1Fpl/J} from IMSR.

Species: Mus musculus

Synonyms: B6.129-Itgp. B6.129-Cd47/J

Notes: gene symbol note: CD47 antigen (Rh-related antigen; integrin-associated signal transducer); mutant strain|congenic strain: Cd47

Affected Gene: CD47 antigen (Rh-related antigen; integrin-associated signal transducer)

Genomic Alteration: targeted mutation 1; Frederik P Lindberg

Catalog Number: JAX:003173

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S7-Cd47^{tm1Fpl/J}

Record Creation Time: 20250513T053637+0000

Record Last Update: 20260919T054827+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S7-Cd47^{tm1Fpl/J}.

No alerts have been found for B6.129S7-Cd47^{tm1Fpl/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 18 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#).

Kaur S, et al. (2025) T Cell Activation Induces Synthesis of CD47 Proteoglycan Isoforms and Their Release in Extracellular Vesicles. International journal of molecular sciences, 26(17).

Wang F, et al. (2025) Blockade of TSP-1/CD47 signal axis promotes donor hematopoietic engraftment by improving SEC/MK niche function. iScience, 28(3), 111952.

Le T, et al. (2024) Redistribution of the glycocalyx exposes phagocytic determinants on apoptotic cells. Developmental cell.

Vanhoutte D, et al. (2024) Thbs1 regulates skeletal muscle mass in a TGF β -Smad2/3-ATF4-dependent manner. Cell reports, 43(5), 114149.

Mazgaeen L, et al. (2023) CD47 halts Ptpn6-deficient neutrophils from provoking lethal inflammation. Science advances, 9(1), eade3942.

Stirling ER, et al. (2022) Targeting the CD47/thrombospondin-1 signaling axis regulates immune cell bioenergetics in the tumor microenvironment to potentiate antitumor immune response. Journal for immunotherapy of cancer, 10(11).

Azcutia V, et al. (2022) Distinct stimulus-dependent neutrophil dynamics revealed by real-time imaging of intestinal mucosa after acute injury. PNAS nexus, 1(5), pgac249.

Nath PR, et al. (2022) Loss of CD47 alters CD8+ T cell activation in vitro and immunodynamics in mice. Oncoimmunology, 11(1), 2111909.

Shuster SA, et al. (2022) In situ cell-type-specific cell-surface proteomic profiling in mice. Neuron, 110(23), 3882.

Vanhoutte D, et al. (2021) Thbs1 induces lethal cardiac atrophy through PERK-ATF4 regulated autophagy. Nature communications, 12(1), 3928.

Ghimire K, et al. (2020) CD47 Promotes Age-Associated Deterioration in Angiogenesis, Blood Flow and Glucose Homeostasis. Cells, 9(7).

Tal MC, et al. (2020) Upregulation of CD47 Is a Host Checkpoint Response to Pathogen Recognition. mBio, 11(3).

Myers LM, et al. (2019) A functional subset of CD8+ T cells during chronic exhaustion is defined by SIRP α expression. *Nature communications*, 10(1), 794.

Nath PR, et al. (2018) CD47 Expression in Natural Killer Cells Regulates Homeostasis and Modulates Immune Response to Lymphocytic Choriomeningitis Virus. *Frontiers in immunology*, 9, 2985.

Leng L, et al. (2018) Menin Deficiency Leads to Depressive-like Behaviors in Mice by Modulating Astrocyte-Mediated Neuroinflammation. *Neuron*, 100(3), 551.

Lehrman EK, et al. (2018) CD47 Protects Synapses from Excess Microglia-Mediated Pruning during Development. *Neuron*, 100(1), 120.

Kamerkar S, et al. (2017) Exosomes facilitate therapeutic targeting of oncogenic KRAS in pancreatic cancer. *Nature*, 546(7659), 498.

Zhao Y, et al. (2014) Thrombospondin-1 triggers macrophage IL-10 production and promotes resolution of experimental lung injury. *Mucosal immunology*, 7(2), 440.