

Resource Summary Report

Generated by [nidm-terms](#) on Sep 6, 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: 20260905T044417+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 [nidm-terms](#).

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.