

Resource Summary Report

Generated by [SPARC SAWG](#) on Jul 30, 2026

STOCK Pdcd1^{tm1.1Shr/J}

RRID:IMSR_JAX:021157

Type: Organism

Proper Citation

RRID:IMSR_JAX:021157

Organism Information

URL: <https://www.jax.org/strain/021157>

Proper Citation: RRID:IMSR_JAX:021157

Description: Mus musculus with name STOCK Pdcd1^{tm1.1Shr/J} from IMSR.

Species: Mus musculus

Synonyms: B6.Cg-Pdcd1/J

Notes: gene symbol note: programmed cell death 1; mutant stock: Pdcd1

Affected Gene: programmed cell death 1

Genomic Alteration: targeted mutation 1.1; Arlene H Sharpe

Catalog Number: JAX:021157

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: STOCK Pdcd1^{tm1.1Shr/J}

Record Creation Time: 20250513T053742+0000

Record Last Update: 20260725T044450+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Pdcd1^{tm1.1Shr/J}.

No alerts have been found for STOCK Pdcd1^{tm1.1Shr/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 34 mentions in open access literature.

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

Zirkenbach VA, et al. (2023) Effect of SARS-CoV-2 mRNA-Vaccine on the Induction of Myocarditis in Different Murine Animal Models. International journal of molecular sciences, 24(5).

Long Y, et al. (2023) Suppression of Tumor or Host Intrinsic CMTM6 Drives Antitumor Cytotoxicity in a PD-L1-Independent Manner. Cancer immunology research, 11(2), 241.

Zhuang S, et al. (2023) IFN- γ blockade after genetic inhibition of PD-1 aggravates skeletal muscle damage and impairs skeletal muscle regeneration. Cellular & molecular biology letters, 28(1), 27.

Zhao J, et al. (2023) PD-L1/PD-1 checkpoint pathway regulates hippocampal neuronal excitability and learning and memory behavior. Neuron, 111(17), 2709.

Perry JA, et al. (2022) PD-L1-PD-1 interactions limit effector regulatory T cell populations at homeostasis and during infection. Nature immunology, 23(5), 743.

Hayashi T, et al. (2022) The Programmed Death-1 Signaling Axis Modulates Inflammation and LV Structure/Function in a Stress-Induced Cardiomyopathy Model. JACC. Basic to translational science, 7(11), 1120.

Piao W, et al. (2022) PD-L1 signaling selectively regulates T cell lymphatic transendothelial migration. Nature communications, 13(1), 2176.

Wagner AK, et al. (2022) PD-1 expression on mouse intratumoral NK cells and its effects on NK cell phenotype. iScience, 25(10), 105137.

Li S, et al. (2021) Programmed Death-Ligand 2 Deficiency Exacerbates Experimental Autoimmune Myocarditis in Mice. International journal of molecular sciences, 22(3).

Nguyen TTT, et al. (2021) Cbl-b deficiency prevents functional but not phenotypic T cell anergy. The Journal of experimental medicine, 218(7).

Uddbäck I, et al. (2021) Long-term maintenance of lung resident memory T cells is mediated by persistent antigen. Mucosal immunology, 14(1), 92.

Gerussi A, et al. (2021) Immune-Mediated Drug-Induced Liver Injury: Immunogenetics and Experimental Models. International journal of molecular sciences, 22(9).

Moon S, et al. (2021) Niche-specific MHC II and PD-L1 regulate CD4⁺CD8⁺ intraepithelial lymphocyte differentiation. *The Journal of experimental medicine*, 218(4).

Cao Y, et al. (2021) Investigating the Mechanism of Trimethoprim-Induced Skin Rash and Liver Injury. *Toxicological sciences : an official journal of the Society of Toxicology*, 180(1), 17.

David P, et al. (2019) The PD-1/PD-L1 Pathway Affects the Expansion and Function of Cytotoxic CD8⁺ T Cells During an Acute Retroviral Infection. *Frontiers in immunology*, 10, 54.

Cao S, et al. (2019) Mycobacterium tuberculosis antigens repress Th1 immune response suppression and promotes lung cancer metastasis through PD-1/PDI-1 signaling pathway. *Cell death & disease*, 10(2), 44.

Garo LP, et al. (2019) Smad7 Controls Immunoregulatory PDL2/1-PD1 Signaling in Intestinal Inflammation and Autoimmunity. *Cell reports*, 28(13), 3353.

Lomas-Neira J, et al. (2018) Novel Role for PD-1:PD-L1 as Mediator of Pulmonary Vascular Endothelial Cell Functions in Pathogenesis of Indirect ARDS in Mice. *Frontiers in immunology*, 9, 3030.

Cheng Y, et al. (2018) Trichinella spiralis Infection Mitigates Collagen-Induced Arthritis via Programmed Death 1-Mediated Immunomodulation. *Frontiers in immunology*, 9, 1566.

Ellestad KK, et al. (2018) Prior to Peripheral Tolerance, Newly Generated CD4 T Cells Maintain Dangerous Autoimmune Potential: Fas- and Perforin-Independent Autoimmunity Controlled by Programmed Death-1. *Frontiers in immunology*, 9, 12.