

Resource Summary Report

Generated by [NIF](#) on Aug 27, 2026

B6.129S4-Icam1^{tm1Jcgr/J}

RRID:IMSR_JAX:002867

Type: Organism

Proper Citation

RRID:IMSR_JAX:002867

Organism Information

URL: <https://www.jax.org/strain/002867>

Proper Citation: RRID:IMSR_JAX:002867

Description: Mus musculus with name B6.129S4-Icam1^{tm1Jcgr/J} from IMSR.

Species: Mus musculus

Notes: gene symbol note: intercellular adhesion molecule 1; mutant strain|congenic strain: Icam1

Affected Gene: intercellular adhesion molecule 1

Genomic Alteration: targeted mutation 1; Jose Carlos Gutierrez Ramos

Catalog Number: JAX:002867

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.129S4-Icam1^{tm1Jcgr/J}

Record Creation Time: 20250513T053635+0000

Record Last Update: 20260815T050545+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S4-Icam1^{tm1Jcgr/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 11 mentions in open access literature.

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

Wu L, et al. (2026) ICAM1high Neutrophils Sculpt Tumor Evolution and Metastasis through Symbiotic Adhesion and Reverse Migration. Cancer research.

Rasbach E, et al. (2025) Targeting the tumor cell-intrinsic ITGB2 axis inhibits melanoma progression. Molecular cancer, 24(1), 310.

Lyons-Cohen MR, et al. (2023) Prolonged T cell - DC macro-clustering within lymph node microenvironments initiates Th2 cell differentiation in a site-specific manner. bioRxiv : the preprint server for biology.

Engels R, et al. (2022) LFA1 and ICAM1 are critical for fusion and spread of murine leukemia virus in vivo. Cell reports, 38(3), 110279.

Martens R, et al. (2020) Efficient homing of T cells via afferent lymphatics requires mechanical arrest and integrin-supported chemokine guidance. Nature communications, 11(1), 1114.

Hurrell BP, et al. (2020) Distinct Roles of LFA-1 and ICAM-1 on ILC2s Control Lung Infiltration, Effector Functions, and Development of Airway Hyperreactivity. Frontiers in immunology, 11, 542818.

Zenke S, et al. (2020) Quorum Regulation via Nested Antagonistic Feedback Circuits Mediated by the Receptors CD28 and CTLA-4 Confers Robustness to T Cell Population Dynamics. Immunity, 52(2), 313.

Liu YF, et al. (2018) ICAM-1 Deficiency in the Bone Marrow Niche Impairs Quiescence and Repopulation of Hematopoietic Stem Cells. Stem cell reports, 11(1), 258.

Lei AH, et al. (2018) ICAM-1 controls development and function of ILC2. The Journal of experimental medicine, 215(8), 2157.

Di-Cicco A, et al. (2015) Paracrine Met signaling triggers epithelial-mesenchymal transition in mammary luminal progenitors, affecting their fate. eLife, 4.

Theruvath TP, et al. (2012) Icam-1 upregulation in ethanol-induced Fatty murine livers promotes injury and sinusoidal leukocyte adherence after transplantation. HPB surgery : a world journal of hepatic, pancreatic and biliary surgery, 2012, 480893.